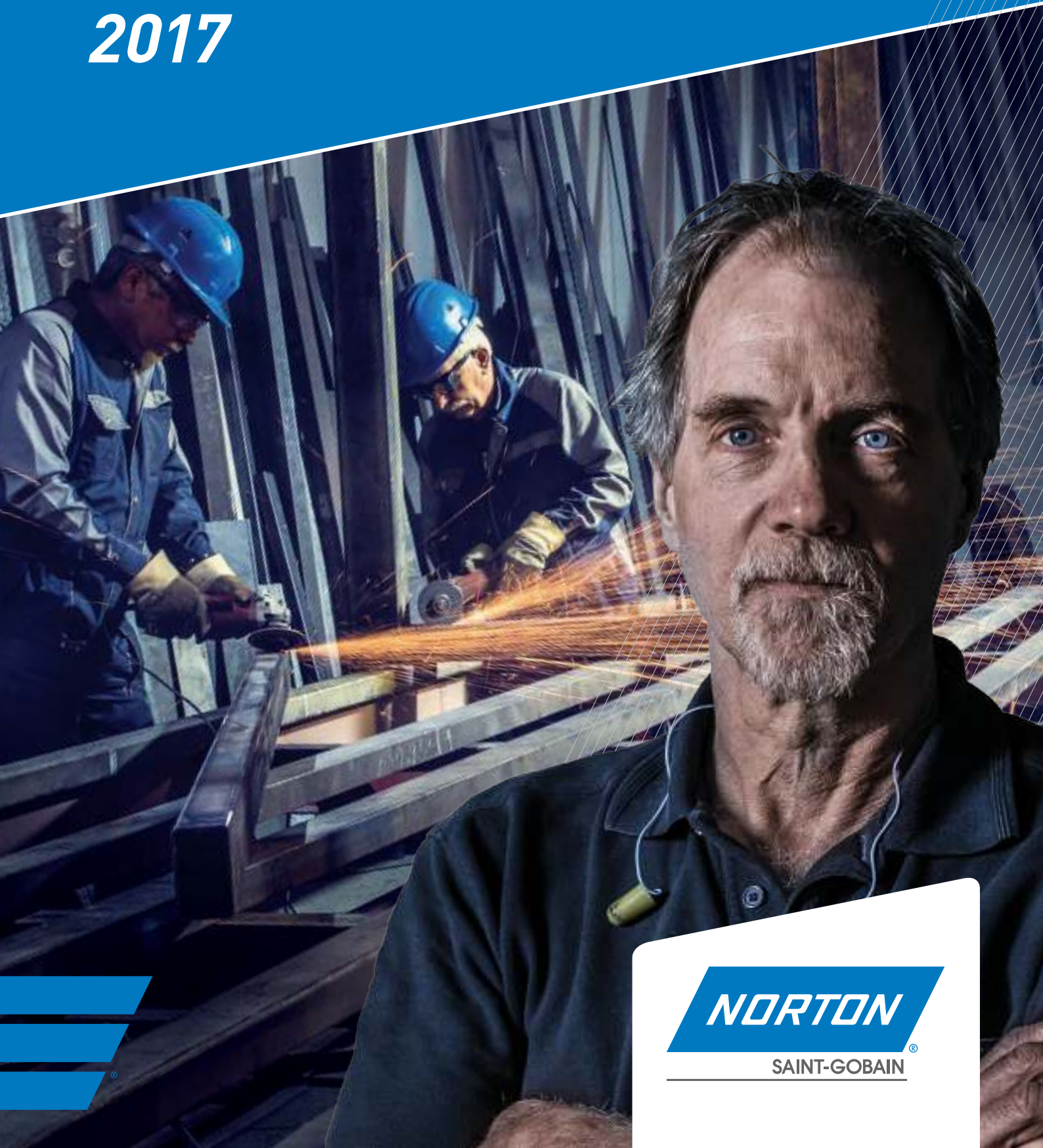


Reshaping  
your  
world.

ABRASIVE SOLUTIONS

# INDUSTRIAL APPLICATIONS

**2017**



**NORTON**

SAINT-GOBAIN®



**NORTON**

SAINT-GOBAIN<sup>®</sup>

## **RESHAPING YOUR WORLD WITH...**

WORLDWIDE MARKET LEADERSHIP

WORLD CLASS PRODUCT INNOVATIONS

CUTTING EDGE TECHNOLOGIES

A COMPLETE RANGE OF STOCK PRODUCTS

THE WIDEST SPECTRUM OF PRODUCT QUALITY

MADE-TO-ORDER SOLUTIONS





Reshapping  
your  
World.®

TECHNICAL  
INFORMATION

PERSONAL  
PROTECTION  
EQUIPMENT

CLEANING,  
POLISHING  
& MASKING

DIAMOND  
TOOLS

SUPER  
ABRASIVES

BONDED  
ABRASIVES

COATED  
ABRASIVES  
& BEARTEX

CUTTING-OFF  
& GRINDING  
WHEELS

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# Reshaping your world®

Norton, the world's premium abrasive brand, offers powerful, precise and user friendly solutions enabling our customers to shape and surface-finish all types of materials even in the most complex and challenging applications.

As the technology leader, Norton sits at the forefront of the industry providing highly engineered, high-performance value-adding abrasives.

Norton's continual investment in R&D and close collaboration with customers generates highly performance-optimised innovations.

This strong commitment ensures that exciting new products are continuously introduced which offer substantial customer benefits. Helping to improve process productivity and reshape the world of abrasive solutions.





### UTILISING NEW TECHNOLOGIES

As well as New Product Development, Norton is committed to utilising technology breakthroughs in all its existing products. Both the Norton stock range and made-to-order solutions are continually reviewed to ensure that the product offer remains fresh and conforms to the most recent market trends. This approach ensures that all Norton products benefit from state-of-the-art technology, and that the Norton brand has continued sustainable market growth.

### INNOVATION AT WORK

Norton reinforces its position as market and innovation leader by constantly analysing the market to ensure it continuously fulfils customer needs. Norton looks to acquire and hold extensive knowledge about its customers' business activities and product priorities. This market orientated approach enables Norton to better anticipate customer requests and to have an improved understanding of market developments.

### THE ABRASIVE EXPERTS

Norton's technical expertise ensures not only are the most appropriate products used in all abrasives applications but also they are used in an effective and safe manner, maximising performance. Through this Norton looks to establish valuable working partnerships with its customers of all sizes and stature.

### COMMITTED TO CUSTOMER NEEDS

These working partnerships are reinforced through extensive marketing activities that support its complete and innovative product range. Norton is much more than the world's leading manufacturer of abrasive products, it's a brand that has become and remains number one in the minds of its customers. Norton is committed to the long-term development of abrasives and is part of a company that looks to assist customers in all their abrasive needs.

# ABRASIVE TECHNOLOGICAL EXCELLENCE

NORTON'S RELENTLESS COMMITMENT TO DELIVERING TECHNOLOGICAL EXCELLENCE IS REINFORCED THROUGH ITS "CENTRES OF EXCELLENCE".



Since Norton's first breakthrough, in 1885, research efforts have continued to produce industry leading results. At the start of the 20th Century Norton's first innovation was the invention of Norton's trademark Alundum abrasive grain, an aluminium oxide grain that could be manufactured to meet precise grinding requirements.

Throughout the 20th and early 21st Centuries Norton has increased its research efforts by developing

innovative products made with new grains including, aluminium oxide, zirconium oxide (Norzon), Seeded Gel (SG) and IPA (Vortex).

Today, Norton's relentless commitment to Delivering Technological Excellence is reinforced through its "Centres of Excellence". Positioned across the globe, each centre concentrates on the development of exciting new products and grains for all applications found within one type of abrasives.



**OUR WORLD GRINDING TECHNOLOGY CENTRE IS DEDICATED TO THE ADVANCEMENT OF GRINDING TECHNOLOGY AND ABRASIVE PRODUCT PERFORMANCE.**

## BONDED ABRASIVES

Opened in 1993, the World Grinding Technology Centre in Worcester, Massachusetts, USA, is Norton's premier research centre for Bonded Abrasives products. In 1998, the centre was renamed as the Higgins Grinding Technology Centre, in honour of the late Milton P. Higgins, a member of one of the founding families of Norton.

The centre is dedicated to the advancement of grinding technology and abrasive product performance, using structured R&D that focuses on grinding system solutions, coolant system solutions, and process diagnostics and optimisation. The centre conducts regular training sessions promoting a systems orientated education focusing on new process development, and increasing the awareness of new product technology. The centre enables Norton to set the standard for Bonded Abrasive product performance throughout the worldwide abrasives industry.



## SUPER ABRASIVES

The Norderstedt European Grinding Technology Centre (EGTC), founded in 2001, is located at the Saint-Gobain Abrasives Diamantwerkzeuge production plant in Norderstedt, Germany. Since opening, the EGTC has played a key role in new grinding wheel and process technology development for Super Abrasive and Bonded products.

The centre brings together the expertise of Super Abrasive and Bonded specialists who have a profound understanding of the complex grinding system, with innovative measurement and analysis tools which enables detailed investigation of grinding wheel performance and complex tool-workpiece interactions.

The EGTC conducts short-term customer application projects in close collaboration with the Saint-Gobain Abrasive application engineering team, who have a strong European presence. As well as this, long-term projects targeting more complex tasks are frequently performed by the centre. The centre allows research teams, consisting of end-users, grinding wheel manufacturers and machine manufacturers, to meet in one place. This enables fast, sustainable and economical solutions for all Super Abrasive applications. The EGTC possesses a number of modern CNC grinding and consignment machine tools to deal with the different applications found in a global market.

The attitude at the centre is highlighted by the numerous seminars and training sessions conducted each year, for both Saint-Gobain Abrasives employees and Norton customers from across the globe.



**THE NORDERSTEDT EUROPEAN GRINDING TECHNOLOGY CENTRE (EGTC), BRINGS TOGETHER THE EXPERTISE OF SUPER ABRASIVE & BONDED SPECIALISTS WHO HAVE A PROFOUND UNDERSTANDING OF COMPLEX GRINDING SYSTEMS, WITH INNOVATIVE MEASUREMENT & ANALYSIS TOOLS.**



**THE HIGHLY SOPHISTICATED TEST CENTRE HAS ADVANCED TRAINING FACILITIES.**

## CUTTING-OFF & GRINDING WHEELS

The Saint-Gobain Abrasives Centre of Excellence in Eibergen, Netherlands has outstanding experience in testing Cutting-off and Grinding wheels. The highly sophisticated test centre has advanced training facilities with a range of carefully selected, up-to-date machines enabling tests to be carried out on the most common application materials. It is possible to test all wheels in the Norton range from diameter 76mm to 406mm, analysing cutting performance, grinding performance, and wheel safety.

The test centre also contains a state-of-the-art robot, which, when used by the centre's expertly trained operators, enables highly reliable test figures to be produced in clear test reports. This not only helps Norton sales teams sell products but also supports Research and Development efforts.

Regular training sessions are also conducted for employees and customers which cover both the theoretical and practical aspects of our products and their application. Regular presentations and demonstrations are given by our product and application specialists.

## COATED ABRASIVES

For more than 80 years our manufacturing plant, in Wesseling near Cologne, Germany, has been well-known for the development of Coated Abrasive products. Computerised production processes, high performance product specifications formulations and a long-standing quality management system give the required assurance for the high performance of all Wesseling manufactured products.

This long standing expertise has allowed Norton product and application engineers to have a superb understanding of the technical issues encountered during coated abrasive applications.

The Wesseling Technology Centre, due to be officially opened as a Centre of Excellence in 2007, features a state-of-the-art Automotive Aftermarket training centre including a spray booth that replicates the real life working environment of Body and Paint Shops.

The Technology Centre is also equipped with a high tech back stand grinder, down draft tables and selected hand tools, that allow focused application tests to take place. This gives Norton engineers the fullest and most accurate knowledge of applications using basic products to more high-tech engineered abrasives, such as Norax®.

The forward thinking approach adopted at Wesseling is passed to sales staff through regular training sessions, giving them a greater understanding of our products to pass on to our customers.

## DIAMOND BLADES

Norton's facilities in Bascharage, Luxembourg, host the Norton Diamond products state-of-the-art Centre of Excellence.

Ideally located in the centre of Europe, the facilities are used to offer regular training sessions to both staff and customers.

Visitors to the centre can learn about the best use for the different types of diamond blades, compare the different Norton ranges in the demonstration area, and learn about effective and safe methods of use. Using products and seeing them being used by experts not only helps provide a more memorable experience, but also helps people develop a greater understanding.

The showroom at Bascharage also gives visitors the opportunity to see the whole range of Norton Diamond Blades as well as every type of Clipper machine.

The centre is also a key resource for product development and testing. All new products are subjected to strenuous tests to gather accurate application and performance statistics.

This not only ensures product safety, it also ensures accurate information is gathered meaning products can be sold with confidence by our sales personnel. The test area is of-course equipped with a wide range of up-to-date equipment, to help measure and control product tests.



THE WESSELING CENTRE OF EXCELLENCE FEATURES A STATE-OF-THE-ART AUTOMOTIVE AFTERMARKET TRAINING CENTRE INCLUDING A SPRAY BOOTH THAT REPLICATES THE REAL LIFE WORKING ENVIRONMENT OF BODY AND PAINT SHOPS.



THE BASCHARAGE CENTRE OF EXCELLENCE IS A KEY RESOURCE FOR PRODUCT DEVELOPMENT AND TESTING. ALL NEW PRODUCTS ARE SUBJECTED TO STRENUOUS TESTS TO GATHER ACCURATE APPLICATION AND PERFORMANCE STATISTICS.

## DELIVERING INNOVATIVE EXCELLENCE



CUTTING EDGE INNOVATION MAKES NORTON QUANTUM GRINDING WHEELS LAST 50% TO 100% LONGER – DESIGNED FOR MAXIMUM PERFORMANCE AND COST SAVINGS.

Investing in R&D, stimulating the generation of new ideas, and increasing the speed at which cutting-edge science is turned into market-ready products, are identified as key factors that determine business success and are some of Norton's main business priorities.

Norton also takes an innovative approach to its business operations, and is committed to the continuous improvement processes and services, creating, evaluating and exploiting new ideas to help continuously add value to its customer relations.

Recently a number of product innovations have been introduced. These are clearly highlighted throughout this catalogue.

Norton's innovative abrasive solutions offer outstanding productivity and versatility, and help reinforce its position as the world's leading manufacturer of abrasives.

### NEW ABRASIVE TECHNOLOGY

## VITRIUM<sup>3</sup>

#### REVOLUTIONARY BOND TECHNOLOGY

Through Saint-Gobain Abrasives' extensive research and development program in grinding wheel technology, comes Vitrium<sup>3</sup> a new generation, patent-pending bond.

This revolutionary bond platform features an exclusive chemistry that delivers an entirely new grain adhesion science, resulting in improved product versatility across a wide range of precision grinding applications.



#### THE ULTIMATE GRINDING EXPERIENCE

By combining three of the very best Norton patented technologies (Norton Quantum, Vortex2 and Vitrium<sup>3</sup>); Norton Quantum X grinding wheels provide maximum performance, increased productivity and reduced process costs.

Norton Quantum X grinding wheels are ideal for the most challenging applications including high material removal, heat sensitive and difficult to grind alloys and thin wall parts which may be sensitive to deformation.



## NEW PRODUCT INNOVATIONS



The perfect formulation of market feedback, our relentless commitment to end user comfort and a new infusion of technology brings this distinctive range of grinding wheels to the forefront.

The impressive cutting action doesn't compromise comfort as it effortlessly bites into metal.

Norton Quantum3's design delivers remarkable power and refined control from start to finish.

So you have smooth cutting performance to remove metal much faster while using fewer wheels for the job.



## INFILTRATED HIGH DENSITY DIAMOND BLADES

Norton's Infiltrated High Density technology (I-HD™) combined with its patented diamond blades laser-welding process is the biggest breakthrough in Diamond Tools this century.

Infiltration achieves high uniform density across each whole segment without applying high pressure (like the standard process). This allows Norton to manufacture very robust segments which wear evenly, remain intact and perform faster at higher cutting speeds.

Norton's optimized process also means increased segment design flexibility resulting in greater diversification of diamond blade shapes to best suit applications and materials being cut.

This revolutionary process provides our customers with:

- A faster tool cutting speed by +30%
- Longer product life by at least +20%
- Advanced safety breakthrough with a 100% warranty against segment loss
- A wider choice of segment design to suit a variety of applications and materials
- Greater user comfort



## NEW PRODUCT CONCEPTS

### VULCAN

#### FOR ALL INDUSTRIAL APPLICATIONS

Norton has a global reputation for its high quality and job focused abrasive products, and the new Vulcan range is no exception. With cutting-off and grinding wheels, flap discs and a range of diamond blades, Vulcan is a multi-solution provider, offering performance, value and convenience in all industrial applications.



#### FOR FOUNDRY APPLICATIONS

The new Norton Foundry X cut-off and grinding wheels have been specifically designed for heavy duty foundry applications and to perform on a range of tough materials.

The bond technology in Foundry X cut-off wheels provide greater heat resistance resulting in longer abrasive life, improves cut-rate and allows a shorter cycle time. The zirconia grains in the grinding wheels provide a high metal removal rate, reduced downtime and longer product life; making them ideal for using with high frequency angle grinders.



#### FOR SURFACE CONDITIONING

Vortex Rapid Prep Belts are the newest extension of the non-woven coated abrasive range for surface conditioning. These abrasive belts are used for blending, finishing and deburring in industries ranging from aerospace to metal fabrication, and MRO operations. They also include proprietary Clean Bond™ resin technology, resulting in a smear-free finish that improves productivity by eliminating rework.



#### PRECISION, SPEED AND POWER

The new long life ZA24Q rail cutting wheel has been specifically designed for use on steel and railway tracks, including subway, tram and train.

The sharp, high performance premium grain and innovative optimised bond technology provides a fast and precise cut. The wheel can be used on any rail cutting machine with a clamping device (electrical and petrol).



#### BELIVE IN PINK

Norton Quantum R928 high performance flap discs, with polycotton cloth backing and pink ceramic grain, provide an improved cut rate and product life compared to both premium zirconium discs and ceramic products in the market, thanks to its high density configuration. R928 also features an additional supersize layer giving this flap disc range cooler cutting properties, reducing heat generation during use for better part quality first and every time. R928 is the ideal flap disc for quick grinding when used at medium pressure on stainless steel or harder metals.

# DELIVERING GOOD, BETTER AND BEST SOLUTIONS

One size fit's all isn't for everyone and at Norton we believe in delivering the right choices that matter to you. Our abrasives are classified as Good, Better and Best performance/price tiers to help you chose the right product for your application, every time.



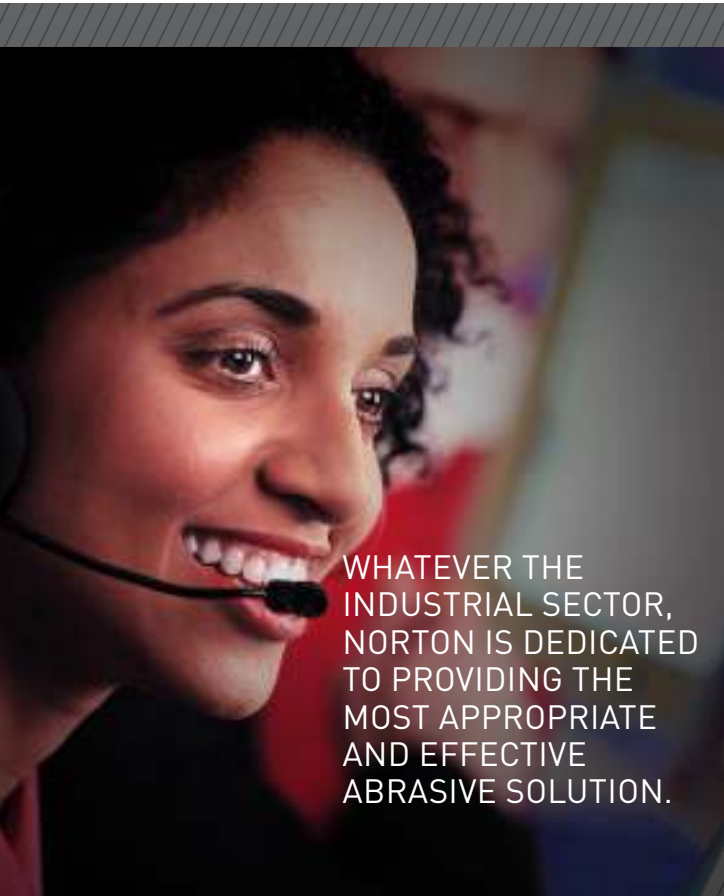
And clear graphics and communication help to visually differentiate between our Good, Better, and Best product solutions.



## STILL NEED A DIFFERENT CHOICE?

We also have products for the very basic need where the lowest initial price point is priority to get the job done. If you need help to determine the right tier for your specific needs, don't hesitate to contact us or via your local Norton sales representative.

# DELIVERING MADE-TO-ORDER SOLUTIONS



WHATEVER THE INDUSTRIAL SECTOR, NORTON IS DEDICATED TO PROVIDING THE MOST APPROPRIATE AND EFFECTIVE ABRASIVE SOLUTION.

## NORTON IS A UNIQUE SOLUTION PROVIDER

Whatever the industrial sector, Norton is dedicated to providing the most appropriate and effective abrasive solution for any application including cutting, grinding and polishing.

In addition to the thousands of stock products available in Coated, Bonded, Thin Wheels, Diamond Blades and Super Abrasives, Norton offers a large number of made-to-order products designed to meet any technical requirement.

Made-to-order solutions represent a significant amount of the complete Norton product offering.

When complex application environments have to be analysed, when cutting-edge technology is necessary to optimise product performances, our leading brand offers the premium solution.

Many Norton customers benefit from our technical support – facilitating the choice of abrasive and combining insight from both sides to run appropriate tests and improve processes.

Sharing views and experiences, Norton represents your preferred partner to increase productivity and reduce overall cost.

## WHY SELECT NORTON

- Our Centres of Excellence enable product testing under real conditions
- We have highly skilled, knowledgeable and experienced personnel devoted to delivering high performance solutions to fulfil customer needs
- We allocate time and resource to product testing/customer case studies
- We have acquired invaluable experience over our long history
- We establish client partnerships to ensure we are aware of the most up-to-date technology with regard to processes, machines and coolants.

To learn more about Norton made-to-order capabilities, highly effective engineered solutions, cutting edge technologies that can help you optimise performance and reduce costs, please contact your local Customer Service Department.

**HELP CUSTOMERS SELECT THE RIGHT ABRASIVE FROM OUR HUGE PRODUCT OFFERING AND DELIVER HIGHLY ENGINEERED SOLUTIONS THAT NOT ONLY MEET BUT EXCEED VERY SPECIFIC AND TECHNICAL REQUIREMENTS, IN ALL MARKET SEGMENTS.**

## DELIVERING LOGISTICAL EXCELLENCE

In order to confirm Norton's market leading position and support our highly engineered, innovative product solutions, Norton operates a range of ERP and Quality Management systems. This enables continuous improvement of performance at every stage of the logistic chain, through careful effective monitoring of all logistical processes and the subsequent implementation of new technology and best practice procedures.

**NORTON HAS A LOGISTICS TEAM OF 80 SPECIALISED PEOPLE WHO ARE DEDICATED AND FOCUSED ON SATISFYING CUSTOMER REQUIREMENTS.**

Today, Norton has a logistics team of 80 specialised people who are dedicated and focused on satisfying customer requirements. Our planning system, integrated directly with our order processing system, is managed and controlled by a team of forecasting experts who look to maintain and improve our service level (over 97% today).

Reviews are continuously undertaken to improve packaging techniques and new packaging technology is regularly considered, and implemented where appropriate. This ensures customers receive all products in excellent condition.

Norton operates the biggest abrasives distribution centre in Europe with 10 000m<sup>2</sup> used to stock more than 8000 product lines in one location. We have more products at our fingertips than any other abrasives manufacturer in the world. Shipping over 4000 product lines every day and working closely with carefully selected partners, gives us the necessary experience and expertise to provide an unrivalled delivery service to our customers.





## A HISTORY OF EXCELLENCE



In the mid 19th Century, a group of ceramists and entrepreneurs in Worcester, Massachusetts, USA, set out with a goal: meet the growing need of the burgeoning U.S. manufacturing industry, which needed an ever increasing supply of grinding wheels to build and maintain machinery.

By 1876 Norton were manufacturing grinding wheels, and had acquired a patent for vitrified wheels. In 1885 the Norton Emery Wheel Co. was founded to manufacture the first grinding wheel that could be precision made and mass-produced.

Through the latter part of the 19th Century Norton expanded its abrasives range and reached customers throughout the U.S. and Canada. In 1909, Norton built its first European plant in Germany. This was followed by plants in France (1920), UK (1930), and Italy (1935). In the 1930's Norton strengthened its position by expanding into Coated Abrasives. In the same decade Norton developed Diamond and CBN based Super Abrasives.

By 1950 Norton had established itself as the leading world-wide abrasives brand. In 1956, Norton entered South America through an acquisition in Brazil, and followed this with plants in India (1968) and Japan (1972). This steady growth, based upon innovation, technology and responsiveness to customers, has continued and Norton now has a presence in 28 countries around the world.

In 1990, Norton was acquired by Saint-Gobain, a world leader in the manufacture of engineered materials. Saint-Gobain, founded in France in 1665, shares Norton's tradition of commitment to its business and customers, of understanding and responding to the needs of the marketplace and of technical innovation. Saint-Gobain's experience has been a strong addition to the Norton brand.

For over 125 years, Norton has provided innovative solutions for the challenges faced by industries. Our dedication to our business and customers ensures we will continue to be the world's number one abrasive manufacturer supplying a complete range of products that continually add value and efficiency to your operation.

**FOR OVER 125 YEARS, NORTON HAS PROVIDED INNOVATIVE SOLUTIONS FOR THE CHALLENGES FACED BY INDUSTRIES. OUR DEDICATION TO OUR BUSINESS AND CUSTOMERS ENSURES WE WILL CONTINUE TO BE THE WORLD'S NUMBER ONE ABRASIVE MANUFACTURER SUPPLYING A COMPLETE RANGE OF PRODUCTS THAT CONTINUALLY ADD VALUE AND EFFICIENCY TO YOUR OPERATION.**

# PATENTS & TRADEMARKS



Norton shows its commitment to innovation by filing Patents and Trademarks for its most innovative product solutions.

ALTOS®	NO-FIL®	RAPIDSTRIP™
BDX™	NORAX®	RED HEAT™
BEAR-TEX®	NORBIDE®	ROTOLO FOAM®
BLAZE®	NORCLEAN®	SG™
BLACK ICE™	NORFLEX™	SPEEDLOK™
BLUE FIRE®	NORLINE™	SPITFIRE™
DRY ICE™	NORTON QUANTUM™	STARLINE™
I-HD™	NORZON®	TOROS®
LIQUID ICE™	OCTOPUS®	VITRIUM <sup>3</sup> ®
MULTI-AIR®	PLASTIFILM®	VORTEX®
NEON™	PURE ICE™	VULCAN®

CUTTING-OFF  
& GRINDING  
WHEELSCOATED  
ABRASIVES  
& BEARTEXBONDED  
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TOOLSCLEANING,  
POLISHING  
& MASKINGPERSONAL  
PROTECTION  
EQUIPMENTTECHNICAL  
INFORMATION



## CREATE GREAT LIVING PLACES AND IMPROVE DAILY LIFE

Saint-Gobain designs, manufactures and distributes materials and solutions which are key ingredients in the wellbeing of each of us and the future of all.

They can be found everywhere in our living places and our daily life: in buildings, transportation, infrastructure and in many industrial applications.

They provide comfort, performance and safety while addressing the challenges of sustainable construction, resource efficiency and climate change.

**SAINT-GOBAIN IS ONE OF THE WORLD'S TOP 100 LEADING INDUSTRIAL CORPORATIONS OPERATING IN 66 COUNTRIES WITH OVER 170,000 EMPLOYEES; IT IS RANKED AMONGST THE TOP 100 GLOBAL INNOVATORS AND HAS OVER 350 YEARS OF INDUSTRIAL HISTORY.**



### SAINT-GOBAIN IS THE LEADER IN MANY MARKETS

#### INNOVATIVE MATERIALS

##### FLAT GLASS

- No. 1 in Europe
- No. 2 worldwide

##### HIGH PERFORMANCE MATERIALS

- No. 1 worldwide

#### BUILDING DISTRIBUTION

- No. 1 building materials distributor in Europe
- Leading player on the plumbing-heating-sanitary market

#### CONSTRUCTION PRODUCTS

##### PIPELINES

- No. 1 worldwide in ductile cast iron pipe

##### GYPSUM

- No. 1 worldwide in plasterboard and plaster

##### INSULATION

- No. 1 worldwide in insulation

##### MORTARS

- No. 1 in Europe for wall facings
- No. 1 worldwide for tile adhesives

##### EXTERIOR PRODUCTS

- No. 2 in the United States for siding products

# DELIVERING A SUSTAINABLE FUTURE

In 2014 Saint-Gobain Abrasives launched its new sustainability plan aligned with our business values and vision. This 5 point plan of operational policies and practices underpins our commitment

to sustainable development as a global leader. We have made significant progress in advancing sustainability with a number of major accomplishments in each area which we have detailed below.

## Our commitment to employees and sustainability

### Our Vision

Be the **global leader** of reference in Abrasives, at the leading edge of **innovation** and **service**. Delivering the most comprehensive **Abrasive Solutions** to our customers.



### Our Values

Comprehensively and strictly apply our Saint-Gobain Principles of Conduct & Action.

#### Conduct

- Professional commitment
- Respect for others
- Integrity
- Loyalty
- Solidarity

#### Action

- Respect for the law
- Caring for the environment
- Worker health and safety
- Employee rights



Pursue an ambitious policy to constantly **improve workplace health & safety**

In our Abrasives plants safety is our number one priority: lost time accidents have reduced five fold in 10 years

All operators individually assessed at least 3 times Per annum through the SMAT program (Senior Management Audit Tool) - >33,000 individual SMAT's conducted globally per annum

c.70,000 hours per annum of training worldwide on Saint-Gobain Safety Standards

Reduction of workplace hardship: exposure to noise, repetitive tasks, safety, ergonomics...

Reduction of exposure to chemicals

Annual world-wide EHS day

1  
Our commitments to sustainable development



## 2. Continuously encourage the **personal development** of our employees

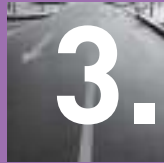
Saint-Gobain named as Top Employer 2015 for third consecutive year

Special focus on diversity, training and career management

Abra+ gives specific exposure of our young talents to senior management

60+ training courses proposed by Saint-Gobain Abrasives University and Saint-Gobain Training

Systematic employee satisfaction surveys



## 3. Be a **responsible & sustainable player** internationally & within our local communities

Founder member of FEPA and oSa, actively promoting the safety of abrasives

Sustainable development policies audited by VERITAS

Sponsors of local communities through initiatives such as social mobility, heating of local schools...

Extensive roll out of international standards ISO 9001, ISO 14001, OHSAS 18001

Internal testing & certification based on the following safety standards:

EN12413: 1999 ( Bonded Abrasives )    EN13236: 2001 ( Super Abrasives )  
EN13743: 2002 ( Coated Abrasives )    EN13236: 2001 ( Diamond Blades )

Saint-Gobain are endorsers of the Caring for Climate statement and the CEO Water Mandate for Water Resource Protection (as part of the UN's Millennium Development Goals)

Third party supplier charters, timber regulations, CSR evaluations and audits, Adhere process, minerals policy...

Saint-Gobain is a member of the United Nations Global Compact



## 4. Minimize the **environmental footprint** of our operations with five priorities

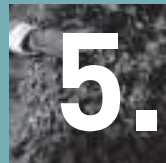
Increase the energy efficiency of our production

Increase the use of recycled raw materials in our plants

Reduce our CO<sub>2</sub> emissions

Optimize our water resources

Strict waste segregation policy



## 5. Continuously **develop eco-valORIZED products** bringing additional value to our customers

The first abrasives manufacturer to produce FSC® products

Use of natural resins and recycled grains

High performance abrasive products & solutions that help to reduce environmental impact and user exposure:

- low noise
- low vibration
- low dust



# ABRASIVE MARKETS

## METAL FABRICATION

Norton continues to play a key role in the Metal Fabrication market, delivering hi-tech relevant abrasive solutions for all applications in surface preparation and finishing. Decades of acquired expertise combined with innovative technology allows Norton to offer the most appropriate abrasive solutions for the most common applications, including: ship building, food industry, chemical and oil industries and boiler making.



APPLICATION	PRODUCT GROUP	MAIN BENEFITS	PAGE
Cutting sheet metal	Wheels for Angle Grinders	Fast cut operation	42
Heavy grinding & deburring	Fibre discs	Aggressive cutting	88
Welds grinding & blending	Flap discs	Versatility	92
Grinding & sanding all kind of metals	Narrow belts	High stock removal	220
Light to medium deburring	SpeedLok discs	Long life	114
Light to heavy duty cleaning	Beartex discs	High resistant	102
Finishing of Stainless Steel	Norax belts	Consistent and predictable surface finish	268
Cleaning & finishing	Flap wheels	Consistent finish	232
De-rusting of Steels, Inox	Wire Brushes	Steady Brushing	449

## NEW PRODUCTS

COATED ABRASIVES	PAGE	CUTTING-OFF & GRINDING WHEELS	PAGE
F975 GreenLyte Fibre discs	88	Norton Quantum	43
R828 X-Treme HD Flap discs	92		
F980 Norton Blaze	114		
R996 Viking belts	220		
R207 Flap wheels	232		



## THE ULTIMATE SOLUTION

An incomparably high performance, high quality product designed specifically for finishing.

**R946**

## GENERAL ENGINEERING

Norton provides technical solutions for applications from surface grinding to sharpening operations on a range of materials from high alloy to stainless steel. In addition Norton offers technical assistance to help provide optimum performance in application precision, quality of finishing and operation productivity. Typical sectors: mechanical, mould industry, tool industry, aerospace subcontractors and medical prosthesis.



APPLICATION	PRODUCT GROUP	MAIN BENEFITS	PAGE
Surface grinding	Vitrified wheels	Cool and burn-free cutting	304
Truing and dressing a wheel	Dressers	Optimises the cutting action and the finish	407
Restoring the cutting edge on tools	India stones	Long lasting cutting edge	354
Internal grinding	CBN wheels	Excellent cutting	384
Surface grinding and finishing	Narrow belts	Quick metal removal and surface finishing	220
Shaping and deburring	Carbide burrs	Long life, reduction of cutting force	462
Light deburring	Coated specialities	Conformability to complex surfaces	138
Surface finishing	Flap wheels	Consistent wear rate, high quality results	232
Polishing of moulds	Beartex wheels	From preparatory lapping to finest finishing	102

## NEW PRODUCTS

BONDED ABRASIVES	PAGE	COATED ABRASIVES/BEARTEX	PAGE
Norton Quantum with Vitrium <sup>3</sup>	304	SpeedLok discs	114
Vortex Grinding wheels	307	Metal finishing convolute wheels	237

## THE ULTIMATE SOLUTION



Norton Quantum X grinding wheels are ideal for the most challenging applications including high material removal, heat sensitive and difficult to grind alloys and thin wall parts which may be sensitive to deformation.

## THE ULTIMATE GRINDING EXPERIENCE

## MAINTENANCE & REPAIR OPERATIONS

From the most advanced and critical operation to the simplest task, Norton provides an effective solution. Customers can benefit from the largest stock range of abrasives available anywhere in Europe. On any material Norton can provide you with a range of cost effective solutions for use by hand or machine.



APPLICATION	PRODUCT GROUP	MAIN BENEFITS	PAGE
Sharpening HSS tools	Vitrified bench wheels	Free cutting	333
Light to heavy duty cleaning	Beartex sheets	Conformability to complex surfaces	194
Light deburring	Handy rolls	Long lasting cutting edge	204
Building maintenance	Portable diamond blades	Highly versatile product	422
Cutting pipe	Cut-off wheels	Fast cut	37
Weld & stock removal	Grinding wheels	Fast metal removal	44
Blending welds	Flap discs	Versatile and long lasting	92
Deburring	Mounted points	Precise	345, 376
Removing imperfections	Specialities	Wide range of items for accessing intricate areas	138

## NEW PRODUCTS

COATED ABRASIVES/BEARTEX	PAGE	DIAMOND BLADES BONDED ABRASIVES	PAGE
Flap Discs	92	4x4 Explorer+	422
Convolute wheels	237	Starline bench wheels	334
Sanding Stars	143		



## THE ULTIMATE SOLUTION

The Norton Quantum platform of cutting-off, grinding wheels, flap discs and fibre discs offers the ultimate performance, unrivalled product life and highest material removal rates on stainless steels, alloys and carbon steels.

### THE NORTON QUANTUM PLATFORM



## WOODWORKING

Norton has actively developed new solutions with innovative abrasives products in full co-operation with customers over many years. Whatever the machine type is, Norton is in a position to optimise the sanding process. In addition to abrasives dedicated to sophisticated machines, Norton has created a very effective range of tools, easy to use like sponges or sanding block for manual operations. Furthermore, a huge variety of product shapes are available to fit with any particular application that requires specific abrasive types. Typical sectors: carpentry, furniture manufacturer, parquetry (manufacturer and renovation), boat and marine.



APPLICATION	PRODUCT GROUP	MAIN BENEFITS	PAGE
Sanding & finishing of wood	Narrow and wide belts	Long life	249
Sanding contours	Abrasives sanding sponges	Soft and versatile manual finishing	196
Sanding contours	Narrow belts	Very flexible for machine polishing	228
Re-sharpening saw blade	Vitrified wheel	No burn and straight cut	328
Sanding	Portable belts	Long life	216
Hand sanding	Paper sheets	Load resistant	180
Bare wood sanding	Cloth rolls	Excellent finish	202
Varnished surface sanding	No-Fil paper discs	Anti-clogging and longer lasting	151
Edges sanding	Polyester narrow belts	Sharp and long lasting belts	228

## NEW PRODUCTS

COATED ABRASIVES/BEARTEX	PAGE
Norton Ice Discs	161
Multi-Air Discs	154

## THE ULTIMATE SOLUTION



These high performance aluminium oxide belts are ideal for any sanding applications, from rough sanding to finishing operations.

### H231 & H235 NARROW & WIDE BELTS

## FLOOR SANDING

Norton leads the development of abrasive technology in this market through innovations such as Norton Red Heat R955 with SG grain which provides the optimum productivity at the lowest cost.



APPLICATION	PRODUCT GROUP	MAIN BENEFITS	PAGE
Drum sanders	Sheets and rolls	Easy to use, load resistant	255
Belt sanders	Belts	Ideal cost/benefit ratio	252
Edger sanders	Discs	Time-saving	258
Buffer sanders	Screenback Double-sided discs	Anti-clogging for a perfect finish	257

## NEW PRODUCTS

COATED ABRASIVES/BEARTEX	PAGE
Red Heat R955 belts	252

## THE ULTIMATE SOLUTION



These polyester backed belts are extremely strong and ideal for floor sanding. There's no need to look for any other product when sanding hard wood.

### RED HEAT R955 BELTS

## FOUNDRY

Norton holds significant expertise in the foundry applications by conducting thorough analysis of the complete abrasive process to help maximize productivity. The products offered are capable of providing incomparable solutions for the most demanding applications in the industry. Typical sectors: aerospace, automotive and medical prosthesis.



APPLICATION	PRODUCT GROUP	MAIN BENEFITS	PAGE
Deburring	Grinding wheels	High stock removal rate	50
Removing cracks	Resin bond wheel	Fast operation	373
Shaping and deburring	Carbide burrs	Fast cutting	462
Gate removal	Supersize Narrow belts	Cool cut for heat sensitive metal	220
Gate removal	Resin mounted wheels	High stock removal rate	376
Cutting-off	Large Cut-off wheels	Free cutting	365

## NEW PRODUCTS

COATED ABRASIVES	PAGE	BONDED ABRASIVES	PAGE
R996 Viking belts	220	Reinforced organic cut-off wheel	368
Tungsten carbide burrs	462		

## THE ULTIMATE SOLUTION



Norton Foundry X cut-off and grinding wheels have been specifically designed for heavy duty foundry applications and to perform on a range of tough materials.

**FOR FOUNDRY APPLICATIONS**

## RAIL

Rail track is continuously subjected to high stress as a result of the millions of tons of train riding over them each year. Norton makes significant investment in the research and development of all abrasive applications encountered in the rail industry ensuring it continues to offer the most suitable range of abrasive products that focus on providing effective, accurate and safe results. Norton's products for the rail industry are each specifically designed to take into account the hardness of the metal used and the unique shape of rail track.



APPLICATION	PRODUCT GROUP	MAIN BENEFITS	PAGE
Cutting rail	Cut-off wheels	White and straight cuts	63
Deburring rails	Grinding wheels	Weld preparation	42
Grinding rails	Organic cup wheel	Excellent preparation of the rail before welding	373
Finishing welds	Organic straight wheel	Fast operation	373
Deburring Welds	Carbide Burrs	Faster removal than mounted points	462

## NEW PRODUCTS

COATED ABRASIVES	PAGE	BONDED ABRASIVES	PAGE
R996 Viking belts	220	Reinforced organic cut-off wheel	368
Tungsten carbide burrs	462		

## THE ULTIMATE SOLUTION



A comprehensive portfolio of high end rail cutting wheels including the fast cutting A24P-BF41, the long life ZA24T-BF41 and the latest ZA24Q which offers both a fast precise cut and long life.

**PRECISION, SPEED AND POWER**

## TOOL ROOM

The maintenance and repair of cutting tools is common place in almost every manufacturing plant. Norton has a range of highly effective solutions suitable for tool room cutting and sharpening operations.



APPLICATION	PRODUCT GROUP	MAIN BENEFITS	PAGE
Sharpening cemented carbide cutting tools	Diamond wheels	High removal rate could be used wet or dry	379
Cutting drill bits	Non-Reinforced Cut-off wheels	Produce minimal burr and burn	370
Sharpening HSS cutting tools	CBN wheels	Free cutting	379
Sharpening tools	Vitrified cups and dishes	High removal rate and extended product life	279



## THE ULTIMATE SOLUTION

The state-of-the-art Norton B99 bond has been developed for almost all applications, covering the grinding of round tools, saw blades, knives, milling cutters, as well as all OD, flat, and ID applications.

### NORTON B99

## GLASS

Norton offers innovative technological solutions with coated and non-woven abrasives, and supplies a full range of products to cover the various needs for glass converting and finishing operations. Norton has been successful in adapting and evolving its products to match customer's processes in order to meet the most stringent surface quality standards on any type of machine designed for the Glass market. Typical sectors: safety and special glass, building and furniture glass.



APPLICATION	PRODUCT GROUP	MAIN BENEFITS	PAGE
Edge grinding	Narrow belts	High resistant and long life	267
Edge grinding	Cross belts	High quality and resistant	267
Edge finishing	Cork belts	High finishing quality	268
Removal coating after cutting	BearTEX wheels	High performance	237

## THE ULTIMATE SOLUTION



Norax belts provide an unparalleled surface finish on all glass applications. The grit X5 is ideal for final finishing of glass edges. Made to order.

[U366 Norax Narrow Belts](#)

## OIL & GAS

Norton has developed a complete range of abrasives specifically designed for the manufacture and repair of upstream, midstream and downstream components, shipbuilding, oil rigs, pipelines, and petrochemical plants. As well as an extensive variety of abrasives for rough and precision grinding, finishing and polishing, Norton offers new innovations, on-site technical support and bespoke solutions for the engineering challenges faced in the industry.



APPLICATION	PRODUCT GROUP	MAIN BENEFITS	PAGE
OD grinding, plungers	Bonded grinding wheels	Excellent part quality and cost reduction	279
ID manual grinding, stabilizer/reamers	Flap discs	Weld preparation & removal	94
Cylindrical grinding rods	Narrow belts for metal	Excellent surface finish	221
Polishing rotors/stators	Non-woven discs	Eliminates process stages, saving time & money	102, 109
Portable off-hand, pipe and weld preparing	Cutting-off and grinding wheels	High stock removal on all materials	47

## NEW PRODUCTS

CUTTING-OFF & GRINDING WHEELS	PAGE	COATED ABRASIVES	PAGE
Oil & Gas	47	Oil & Gas flap discs	94



## THE ULTIMATE SOLUTION

Norton Quantum3 grinding wheels provide the ultimate performance in all demanding applications even on hard alloy steels, providing unrivalled life, highest metal removal rates and the fastest cutting action.

## MERCHANDISING SOLUTIONS

We have a complete set of Norton branded displays to help showcase our products in all environments, plus off the shelf point-of-sale graphics that can also be tailored to customer requirements whether that's for cutting-off and grinding, stock removal, or surface preparation and finishing.



### NORTON DISPLAY KIT

- The complete kit comes with all components needed to create a full display for any product range.
- Kit contains:  
Base x1, pegboards x4, header x1, shelf x1, display bar with 5 pins x1, legs x2, pegs x35
- Accessories can be ordered separately if required.

KIT DESCRIPTION	PK QTY	ART NO.
Complete kit with light	1	410076979
Complete kit with light & UK plug	1	410058121
Complete kit without light	1	410076980

### PORTABLE DISPLAY FOR CUTTING-OFF & GRINDING WHEELS

- Kit contains:  
Unit x1, header x1, pins x22, side panels x2
- H: 1740mm x W: 380mm x D: 580mm

DESCRIPTION	PK QTY	ART NO.
Portable cutting-off & grinding stand	1	410090016







**NORTON**

SAINT-GOBAIN



**WWW**



**NOW LIVE!**

Announcing the launch of our new global website [www.nortonabrasives.com](http://www.nortonabrasives.com), marking a new day in the online world of Norton Abrasives!

The new Norton site delivers a deeper brand experience by giving users detailed access to products, markets, machines and surfaces. It gives more focus on product selection and key sub-brands, with a cleaner layout and dynamic lifestyle photography, and thanks to a more intuitive navigation and responsive design, the new site is easier to navigate on any mobile device.

Going live is only the start of our journey... we will continually enrich the site with fresh content and new features so that your online experience continues to be as good as it can be.

**EXPLORE...**

**[www.nortonabrasives.com](http://www.nortonabrasives.com)**

INTRODUCTION

CUTTING-OFF  
& GRINDING  
WHEELS

COATED  
ABRASIVES  
& BEARTEX

BONDED  
ABRASIVES

SUPER  
ABRASIVES

DIAMOND  
TOOLS

CLEANING,  
POLISHING  
& MASKING

PERSONAL  
PROTECTION  
EQUIPMENT

TECHNICAL  
INFORMATION

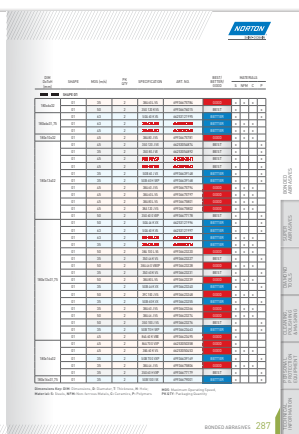
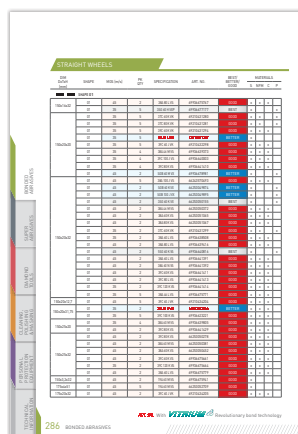
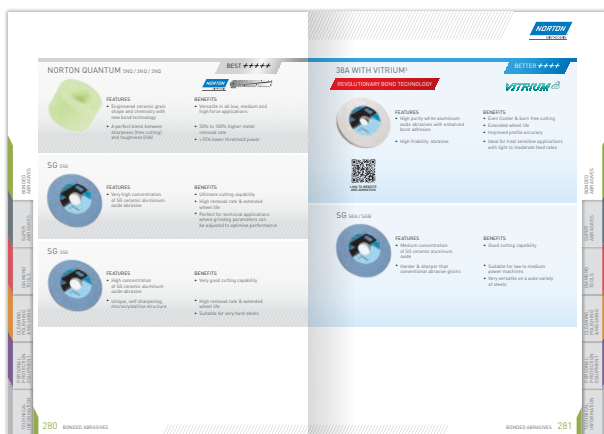
# HOW TO USE THIS CATALOGUE

The Norton product line is segmented into easy-to-use, colour-coded sections. Each of these sections are divided into sub-sections which are categorised by product type, machine type or application.

The first part of each sub-section is designed to help you find the right product – each product is categorised by Good, Better, Best, and is supported by key features and benefits, applications and markets and selection tables.

The second part of each sub-section comprises of product tables – designed to give quick and easy product reference details.

The tables are arranged by product type or application (for Diamond Blades and Cutting Off and Grinding Wheels). The Good, Better, Best concept is repeated to bring clear product comparison. Dimensions, grit, pack quantity and product codes are clearly displayed. In addition, Product Selection charts serve as a quick reference guide to the range. 'Spec Checks' also give helpful information on specific products or range benefits.



Technical and Safety information for each of the core product types is included in a separate section at the back of the catalogue.

## HOW TO ORDER

Please contact your local Customer Service Centre, details can be found on the back page of the catalogue. For countries that are not listed please send your request to our European Headquarters.



When placing an order it helps to have the following information available:

- Your name
- Your account number
- Your order or reference number
- Product article number/s
- Required quantity
- Any special instructions

If you require additional product or technical information then please do not hesitate to contact your local Customer Service or Sales Representative.

For prices and terms of sale please refer to the price list.

### E-PARTNER

We offer two forms of electronic ordering; online ordering through Abrasive Connection or through a full EDI ordering facility. If you are interested in either please contact Customer Service.



# 37-68 CUTTING-OFF & GRINDING WHEELS



CUTTING-OFF  
& GRINDING  
WHEELS

COATED  
ABRASIVES  
& BEARTEX

BONDED  
ABRASIVES

SUPER  
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61 Wheels for Petrol Saws

62 Wheels for Chop Saws

63 Wheels for Rail

65 Wheels for Stationary  
Machines

# INTRODUCTION

The Norton range of Cutting-off and Grinding Wheels for portable and fixed machines provide superior performance in the most stringent working environment. The product range includes state-of-the-art solutions for Cutting-off, Grinding, and Surface Finishing operations on any materials related to industrial fabrication markets. Norton, the industry's most comprehensive Cutting-off and Grinding product line.

CUTTING-OFF & GRINDING WHEELS

COATED ABRASIVES & BEARTEX

BONDED ABRASIVES

SUPER ABRASIVES

DIAMOND TOOLS

CLEANING, POLISHING & MASKING

PERSONAL PROTECTION EQUIPMENT

TECHNICAL INFORMATION

## UNDERSTANDING THE PRODUCT

- 1 Best quality tier
- 2 Application material
- 3 Diameter x Thickness x Hole
- 4 Product specification
- 5 Maximum peripheral speed
- 6 Machine cutting or grinding
- 7 Product code
- 8 OSA certification
- 9 European standard



## SHAPE SPECIFICATION SYSTEM

All Norton products are designed to be operator friendly with high safety standards to satisfy the requirements of all professional users.

For further information please go to the Technical Information Section at the back of this catalogue.

BF 27	BF 29	BF 41	BF 42
DEPRESSED CENTRE GRINDING WHEELS	DEPRESSED CENTRE GRINDING WHEELS	FLAT CUTTING-OFF WHEELS	DEPRESSED CENTRE CUTTING-OFF WHEELS
Available in diameters 76-230mm for hand-held machines.	Available in diameters 115mm and 125mm for hand-held machines.	Available in diameters 50-400mm for hand-held machines and 250-400mm for stationery machines.	Available in diameters 76-230mm for hand-held machines.
Application: Grinding	Application: Grinding	Application: Cutting-off	Application: Cutting-off

## DIFFERENTIATION IN THE RANGE

Norton offers the industry's widest selection of cutting-off and grinding wheels designed to meet every customer's requirement. The range is classified into 3 tiers (Best/ Better/ Good) to help you choose the right product for your specific application.

**BEST +++++  
INNOVATION**

With unparalleled abrasive technology, Norton Quantum 3 and Norton Quantum provides optimum solutions with innovative products dedicated to industrial applications. Norton Quantum 3 wheels deliver an extremely comfortable and efficient grinding solution for all demanding metal fabrication applications. They maintain a consistently high stock removal, even on hard alloy steels, maximizing product throughput without the need for high pressure.

**BEST +++++**

Norton offers premium quality product ranges of aluminium oxide (Omega) abrasive Cutting-off & grinding wheels. These ranges have been developed to meet the demands of the most discerning users. Norton Omega ensures outstanding cutting speed and stock removal rates combined with exceptional long life meaning lower abrasive costs.

**BETTER +++++**

Norton Vulcan and Norzon cutting-off and grinding wheels are extensively used across a range of industries including aerospace, automotive, foundry, fabrication, ship-building and construction. Norton Vulcan and Norzon set an industrial performance standard amongst conventional aluminum oxide grain technologies. They provide optimum performance to price ratio throughout all steel, stainless steel, aluminum and stone applications.

**GOOD +++**

Norton Starline gives above average performance for cutting-off and grinding operations on a wide range of materials, including steel, stainless steel, cast iron and stone.

	BEST INNOVATION	BEST	BETTER	GOOD
METAL	NORTON QUANTUM 3, NORTON QUANTUM	1-2-3, OMEGA, BLUE FIRE	OIL & GAS, VULCAN	STARLINE
INOX	NORTON QUANTUM 3, NORTON QUANTUM	1-2-3, OMEGA, BLUE FIRE	OIL & GAS, VULCAN	
METAL INOX	ACCU, NORTON QUANTUM 3, NORTON QUANTUM	1-2-3, OMEGA, BLUE FIRE	OIL & GAS, NORZON, VULCAN, OCTOPUS	STARLINE
ALU, METAL, INOX, STONE, C TILES, PVC	ACCU		MULTI-PURPOSE	
ALU			NORLINE	
STONE			VULCAN	STARLINE
STONE TILES			MULTI-PURPOSE	
RAIL/METAL			RAIL	
CAST IRON METAL INOX	NORTON QUANTUM		NORZON, FOUNDRY X	
CAST IRON METAL	NORTON QUANTUM		VULCAN, NORZON	

CUTTING-OFF & GRINDING WHEELS

COATED ABRASIVES & BEARTEX

BONDED ABRASIVES

SUPER ABRASIVES

DIAMOND TOOLS

CLEANING, POLISHING & MASKING

PERSONAL PROTECTION EQUIPMENT

TECHNICAL INFORMATION

# INTRODUCTION



## PRODUCT SELECTION - CUTTING-OFF WHEELS FOR ANGLE AND STRAIGHT GRINDERS

	BEST INNOVATION		BEST		BETTER							GOOD				
	ACCU	NORTON QUANTUM ULTIMATE TECHNOLOGY	OMEGA	1-2-3 THE ALL IN ONE SOLUTION	BLUE FIRE	OIL & GAS	NORZON QUICK CUT	NORZON FOUNDRY	MULTI-PURPOSE	NORTON ALU	VULCAN (Metal-Inox)	VULCAN (Inox)	RAIL	VULCAN (Stone)	STARLINE (Metal-Inox)	STARLINE (Stone)
Steel, construction steel	●	●	●	●	●	●	●	●	●	○	●	○			●	
Low-alloy steel	●	●	●	●	●	●	●	●	●	○	●	○			●	
High-alloy steel	●	●	●	●	○	○	●	●	●	○	●	○			○	
Thin sheets, plates profiles	●	●	●	●	○	○	●	●	●	○	●	○			●	
Stainless steel, Inox	●	●	●	●	○	○	●	●	●	○	●	○			○	
Cast iron		●	●			○	○	●								○
Non-ferrous									●	●			●	○		○
Titanium									●	●			●	●		●
Stone, concrete	●								●				●			●
Tiles, ceramic	●								●							
Glass, plastic, pvc	●								●							

### Usage Key

- Highly recommended
- Recommended



## PRODUCT SELECTION - GRINDING WHEELS FOR ANGLE GRINDERS

### Usage Key

- Highly recommended
- Recommended

	BEST INNOVATION		BEST		BETTER						GOOD		
Steel, construction steel	●	●	●	●	●	●	●	●	●	○	○	●	●
Low-alloy steel	●	●	●	●	●	●	●	●	●	○	○	●	●
High-alloy steel	●	●	○	○	●	●	●	●	○	○	○	●	●
Stainless steel, Inox	●	●	○	○	○	○	○	○	○	○	○	○	○
Cast iron		●										○	○
Non-ferrous	○									●			
Titanium										●			●
Stone, concrete	●											●	●

# WHEELS FOR ANGLE GRINDERS

NORTON offers the widest range of wheels for cutting and grinding designed to meet all requirements of industrial customers.

## APPLICATIONS & MARKETS

- Aerospace
- Automotive
- Construction
- Fabrication
- Foundry
- Rail industry
- Ship-building



CUTTING-OFF & GRINDING WHEELS

COATED ABRASIVES & BEARTEX

BONDED ABRASIVES

SUPER ABRASIVES

DIAMOND TOOLS

CLEANING, POLISHING & MASKING

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## ACCU

BEST +++++

INNOVATION

Norton Accu cutting-off & grinding wheels have been developed to give minimal resistance when in use and its free cutting feature absorbs less energy from the battery. It also features a special bond and grain which gives improved user comfort and longer wheel life.

### FEATURES

- Quick, straight cuts with 1,0 thickness
- Cutting, light grinding and polishing with Accu 1-2-3
- Aggressive grain leads to less energy absorption from the battery
- Optimized for cordless grinders
- Optimized for machines of 900W or less

### BENEFITS

- Maximum performance with minimum power
- Enable to work in difficult working areas like work at heights
- Low vibration and comfortable work
- No contamination of stainless steel
- Maximum safety



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	115	1,0x22,23	A 60 R	5	66252843020
	125	1,0x22,23	A 60 R	5	66252843019

Delivery unit 20 sets



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	115	2,2x22,23	C46P	2	66252843018
	125	2,2x22,23	C46P	2	66252842832

Delivery unit 20 sets



## NORTON QUANTUM ULTIMATE TECHNOLOGY



TYPE 41

TYPE 42



Norton Quantum ultra thin cut-off wheels for stainless, alloy and carbon steels provide unrivalled wheel life, highest metal removal rates and fastest cutting action.

### FEATURES

- Premium aggressive NorZon Heavy Duty grain
- Revolutionary Patent Pending Bond Technology

### BENEFITS

- No other wheel lasts longer
- Lowest total abrasive costs
- High metal removal rate
- Fast cutting
- High stability & low vibration
- Less material loss
- Less noise & dust
- Less energy consumption
- Burr-free cutting
- White and clean cutting
- Extreme precision and straight cutting



VIDEO LINK

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	115	1,0x22,23	ZA 60 ZZ	25	66252836338
		1,3x22,23	ZA 60 ZZ	25	66252836897
		1,6x22,23	ZA 46 ZZ	25	66252836339
	125	1,0x22,23	ZA 60 ZZ	25	66252836340
		1,3x22,23	ZA 60 ZZ	25	66252836898
		1,6x22,23	ZA 46 ZZ	25	66252836341
		2,0x22,23	ZA 46 ZZ	25	66252843896
	180	1,6x22,23	ZA 46 ZZ	25	66252837989
230		1,9x22,23	ZA 46 ZZ	25	66252837990
42	115	0,8x22,23	ZA 60 ZZ	25	66252840228
	125	0,8x22,23	ZA 60 ZZ	25	66252838243

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore

CUTTING-OFF & GRINDING WHEELS

COATED ABRASIVES & BEARTEX

BONDED ABRASIVES

SUPER ABRASIVES

DIAMOND TOOLS

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## NORTON QUANTUM 3

Norton Quantum 3 Grinding Wheels are **MADE TO BITE**

Norton Quantum 3 grinding wheels have been specifically developed by Saint-Gobain Abrasive's R&D team to address the needs of the construction and welding industries for more aggressive, faster and more comfortable grinding wheels. Made from proprietary ceramic grain technology and a newly engineered bond system enabling higher grain retention for longer life and a reduction in grinding temperature Norton Quantum 3 provides three key benefits for the end user:

1. Better operator comfort with reduced hand fatigue from less cutting vibration.
2. Less grinding time, a sharper wheel for high metal removal and reduced pressure from faster cutting action.
3. Less downtime and waste with longer wheel life using fewer wheels.

These benefits are key for weld removal, cleaning, bevelling and general grinding applications on black steel, duplex, high chrome alloys and hard alloys in the maintenance and repair, gas & off-shore, shipbuilding, metal fabrication and steel construction industries where Norton Quantum 3 can help to reduce overall process time and cost.



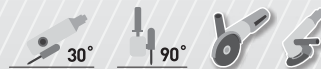
TYPE 27



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	115	7,0x22,23	NQ 24 P	10	66253371361
	125	7,0x22,23	NQ 24 P	10	66253371362
	150	7,0x22,23	NQ 24 P	10	66253371363
	180	7,0x22,23	NQ 24 P	10	66253371364
	230	7,0x22,23	NQ 24 P	10	66253371365



TYPE 27



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	115	4,2x22,23	NQ 24 R	20	66253371356
	125	4,2x22,23	NQ 24 R	20	66253371357
	150	4,2x22,23	NQ 24 R	20	66253371358
	180	4,2x22,23	NQ 24 R	20	66253371359
	230	4,2x22,23	NQ 24 R	20	66253371360

# OMEGA

BEST +++++

Norton Omega cutting-off and grinding wheels work faster and last longer than standard products, saving you time, money and increasing productivity. Premium, sharp aluminium oxide grain and superior bond system provide exceptional performance in even in the most demanding cutting and grinding applications on metal.

### FEATURES

- Premium, sharp aluminium oxide grain
- Superior bond system
- Iron, sulphur and chlorine free

### BENEFITS

- High material removal rates
- Higher G ratio than standard products
- Faster cutting action
- Longer lasting than standard products
- No contamination transferred to the work piece



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	115	1,0x22,23	A 60 W	25	66253370025*
		1,6x22,23	A 46 W	25	66253370026*
	125	1,0x22,23	A 60 W	25	66253370029*
		1,6x22,23	A 46 W	25	66253370030*
	150	1,6x22,23	A 46 W	25	66253370033**
	180	1,6x22,23	A 46 W	25	66253370034**
230	1,9x22,23	A 36 W	25	66253370036**	

\* +30% performance upgrade

\*\* +30% performance upgrade. These wheels will be available from mid of 2017

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore

CUTTING-OFF & GRINDING WHEELS

COATED ABRASIVES & BEARTEX

BONDED ABRASIVES

SUPER ABRASIVES

DIAMOND TOOLS

CLEANING, POLISHING & MASKING

PERSONAL PROTECTION EQUIPMENT

TECHNICAL INFORMATION

METAL  
INOX

TYPE 41



TYPE 42



90°

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	115	2,0x22,23	A 36 W	25	66253370027
		2,5x22,23	A 36 W	25	66253370028
	125	2,0x22,23	A 36 W	25	66253370031
		2,5x22,23	A 36 W	25	66253370032
	180	2,0x22,23	A 36 W	25	66253370035
	230	2,0x22,23	A 36 W	25	66253370037
2,5x22,23		A 36 W	25	66253370039	
42	115	2,5x22,23	A 36 W	25	66253370040
	125	2,5x22,23	A 36 W	25	66253370041
	180	2,5x22,23	A 36 W	25	66253370043
	230	2,5x22,23	A 36 W	25	66253370044

METAL  
INOX

TYPE 27



30°

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	115	7,0x22,23	A 24 S	10	66253370045
	125	7,0x22,23	A 24 S	10	66253370046
	150	7,0x22,23	A 24 S	10	66253370047
	180	7,0x22,23	A 24 S	10	66253370048
	230	7,0x22,23	A 24 S	10	66253370050

METAL  
INOX

TYPE 27



30°

90°

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	125	4,0x22,23	A 24 S	10	66253370042

## 1-2-3 THE ALL IN ONE SOLUTION



Safe cutting, grinding and polishing with a single product.

### FEATURES

- Cutting, light grinding & polishing with one single product
- Fine grit
- Low vibration
- Three layered strong reinforcement
- Free of iron, sulphur & chlorine

### BENEFITS

- No more lost time due to machine or product changing
- Excellent & uniform finishing result
- Comfortable working
- Operator friendly
- Maximum safety
- No contamination



VIDEO LINK

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	115	2,2x22,23	A 46 S	25	66252829704
	125	2,2x22,23	A 46 S	25	66252921592

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore

CUTTING-OFF & GRINDING WHEELS

COATED ABRASIVES & BEARTEX

BONDED ABRASIVES

SUPER ABRASIVES

DIAMOND TOOLS

CLEANING, POLISHING & MASKING

PERSONAL PROTECTION EQUIPMENT

TECHNICAL INFORMATION

## BLUE FIRE

The Norton Blue Fire range of cutting-off and grinding wheels offers a choice of high quality metal working tools for all rough applications including: weld removal, surface preparation, metal removal, reshaping and cutting-off rusted and corroded materials. Norton Blue Fire is the choice of the professional and brings quick and comfortable results. The range is packed in small quantity packs that are re-closable.

### FEATURES

- High performance grains
- Newly developed high performance abrasive grain in combination with strong bond system
- Wide range of products

### BENEFITS

- Long life and comfortable working
- 50% + more cuts. Longer life, easier cutting and quicker working with minimum blueing, deburring or reworking
- Products for straight grinders as well as angle grinders in high performance quality level



TYPE 41



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	50	1,0x6,35	A 60 T	50	66252842745**
		2,0x6,35	A 60 T	50	66252842746
	63	1,0x10	A 60 T	50	66252828195**
		2,0x6,35	A 60 T	25	66252828239
	76	1,0x6,35	A 60 T	50	66252828240**
		1,0x10	A 60 T	50	66252844850**
		1,6x10	A 60 T	50	66252828242**
		2,0x6,35	A 60 T	25	66252828243
		2,0x8,0	A 60 T	25	66252828244
	100	2,0x10	A 60 T	25	66252828245
		1,0x10	A 60 T	50	66252828246
			1,0x16	A 60 T	50

\*\* +50% performance upgrade



TYPE 41



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	115	1,0x22,23	A 60 T	25	66252828255
		1,0x22,23	A 60 T	25	66252828256
	125	1,6x22,23	A 60 T	25	66252828257



ALU METAL INOX  
STONE C.TILES PVC

**TYPE 41**

90°

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	115	1,0x22,23	C 60 T	25	66252828253
	125	1,0x22,23	C 60 T	25	66252828254



METAL INOX

**TYPE 01**

30°

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	50	6,0x6,35	A 24 R	10	66252828248
	63	6,0x10	A 24 R	10	66252828249
	76	7,0x10	A 24 R	10	66252828250



METAL INOX

**TYPE 27**

30°

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	115	7,0x22,23	A 24 R	10	66252828251
	125	7,0x22,23	A 24 R	10	66252828252

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore



**SPEC CHECK**

Thin wheels for use on drills, straight grinders, machines with flexible shaft and low revolutions pneumatic machines have to be used in combination with corresponding spindles.

SAP number	Description	Size
07660739614	Spindle for straight grinder	6mm
07660739615	Spindle for straight grinder	10mm
07660739616	Spindle for straight grinder	8mm

## OIL &amp; GAS

BETTER +++++



For the highest standards in safety and performance, the Norton Oil & Gas range is the perfect solution, offering high material removal, low vibration and maximum working comfort.

## FEATURES

- High performance durable grain
- Advanced bond system
- Heavy glass fiber reinforcement
- Highest metal removal on high alloys and special steels

## BENEFITS

- Longer product life even in extreme, high pressure applications
- Improved user comfort
- Supreme safety levels for use in the toughest conditions
- Specially selected product range for applications found in the Oil and Gas market

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	115	7,0x22,23	A 24 Q	25	66252844788*
	125	7,0x22,23	A 24 Q	25	66252844789
	180	7,0x22,23	A 24 Q	25	66252844790
	230	7,0x22,23	A 24 Q	25	66252844791
41	115	1,0x22,23	A 60 T	25	66252844792
		1,6x22,23	A 46 T	25	66252844793*
	125	1,0x22,23	A 60 T	25	66252844794
		1,6x22,23	A 46 T	25	66252844795
		2,5x22,23	A 46 T	25	66252844910
	180	1,6x22,23	A 46 T	25	66252844796
		2,5x22,23	A 46 T	25	66252844911
	230	1,9x22,23	A 36 T	25	66252844797
		2,5x22,23	A 36 T	25	66252844912
	27	125	4,0x22,23	A 24 T	25
180		4,0x22,23	A 24 T	25	66252844835
230		4,0x22,23	A 24 T	25	66252844836*



VIDEO LINK

\* Made-to-order



## NORZON QUICK CUT

NorZon Quick Cut cutting and grinding wheels provide optimal performance on stainless steel and all hardened steel alloys. They are also suitable for cast iron applications. NorZon Quick Cut products deliver high value and high performance industrial solutions.

### FEATURES

- Premium combination of zirconia grain and advanced bond system
- Suitable for stainless steel, hardened steel and cast iron applications

- Q-Soft
- R-Medium
- S-Hard
- Free of iron, sulphur & chlorine

### BENEFITS

- Superior performance compared to standard aluminum oxide wheels
- Highest productivity means lowest operating cost
- Easy & comfortable grinding
- Optimised for thick applications
- High stability for easy & comfortable cutting
- Fast material removal
- Optimised for universal applications
- Long product life
- No contamination



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	100	4,6x16,0	ZA 24 S	25	66252833116
		7,0x16,0	ZA 24 S	25	66252831403*
	115	7,0x22,23	ZA 24 S	25	66252831413
			ZA 24 R	25	66252831412
	125	7,0x22,23	ZA 30 Z	25	66252829673
			ZA 24 S	25	66252831422
			ZA 24 R	25	66252831421
	150	7,0x22,23	ZA 24 Q	25	66252832747
			ZA 24 S	25	66252832732*
	180	7,0x22,23	ZA 24 R	25	66252833119*
			ZA 30 Z	25	66252831429
			ZA 24 S	25	66252831434
	230	7,0x22,23	ZA 24 R	25	66252831433
			ZA 24 Q	25	66252832745*
ZA 30 Z			25	66252831438	
ZA 24 R			25	66252831446	
230	7,0x22,23	ZA 24 S	25	66252831447	
		ZA 24 Q	25	66252832746	

\* Made-to-order

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore



TYPE 41

TYPE 42



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	115	1,0x22,23	ZA 46 Z	25	66252829663
		1,6x22,23	ZA 46 T	25	66252829496
		2,0x22,23	ZA 36 Z	25	66252831458
	125	1,0x22,23	ZA 46 Z	25	66252832682
		1,6x22,23	ZA 46 T	25	66252829577
		2,0x22,23	ZA 36 Z	25	66252831463
		2,5x22,23	ZA 36 Z	25	66252833117
	150	2,0x22,23	ZA 36 Z	25	66252833118
	180	1,6x22,23	ZA 24 S	25	66252832870
		2,0x22,23	ZA 36 Z	25	66252831469
		2,5x22,23	ZA 36 Z	25	66252832734
	230	1,9x22,23	ZA 46 Z	25	66252832683
2,0x22,23		ZA 36 Z	25	66252831478	
2,5x22,23		ZA 36 Z	25	66252831474	
42	100	3,2x16,0	ZA 24 S	25	66252831502*
	115	2,5x22,23	ZA 36 Z	25	66252831506*
		3,2x22,23	ZA 30 T	25	66252831510
	125	2,5x22,23	ZA 36 Z	25	66252831516
		3,2x22,23	ZA 30 T	25	66252831519
		4,0x22,23	ZA 30 T	25	66252832684
		4,0x22,23	ZA 30 R	25	66252950962
	150	3,2x22,23	ZA 30 T	25	66252832731
	180	2,5x22,23	ZA 36 Z	25	66252831524
		3,2x22,23	ZA 30 T	25	66252831527
		4,0x22,23	ZA 30 T	25	66252832871
	230	2,5x22,23	ZA 36 Z	25	66252831529
		3,2x22,23	ZA 30 T	25	66252831532
		4,0x22,23	ZA 30 R	25	66252950964

\* Made-to-order

## FOUNDRY X



Norton Foundry X grinding wheels have been designed to find the perfect balance between material removal and wheel life. The coarse grit and zirconia grains ensure a high metal removal rate. Foundry X grinding wheels have been designed for High Frequency grinders used in the professional market for rough applications in the toughest environment. Try them out now.

### FEATURES

- Optimized combination of course zirconia and aluminium oxide grains
- Extra reinforcement applied
- Specially developed soft bond system in the Foundry X Comfort
- High Zirconia percentage and hard bond for long life in the Foundry X Long Life

### BENEFITS

- Fit for high frequency grinders, the safest solution in demanding applications
- Maximum user comfort, easy to use and less fatigue
- High material removal, better through put, time saving and cost reduction
- Long life and highly effective, increased productivity

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27 HF**	180	7,0x22,23	ZA 24 T Long Life	10	66253371162
		7,0x22,23	ZA 20 R Comfort	10	66253370493*
	230	7,0x22,23	ZA 24 T Long Life	10	66253371175
		7,0x22,23	ZA 20 R Comfort	10	66252842546*
27	125	7,0x22,23	ZA 24 T Long Life	10	66253371176

\* Made-to-order

\*\* Optimized for use on high power machines

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore

CUTTING-OFF  
& GRINDING  
WHEELS

COATED  
ABRASIVES  
& BEARTEX

BONDED  
ABRASIVES

SUPER  
ABRASIVES

DIAMOND  
TOOLS

CLEANING,  
POLISHING  
& MASKING

PERSONAL  
PROTECTION  
EQUIPMENT

TECHNICAL  
INFORMATION

## NORZON FOUNDRY

The Norton Foundry depressed centre wheels feature a blend of aggressive Norzon and versatile aluminium oxide grain that provides a performance advantage on a wide range of ferrous and non-ferrous materials. Norton's advanced resin bond maximizes the cutting ability while maximizing wheel wear. The end result is a wheel that outlasts and outperforms competitive wheels while lowering the costs of cleaning castings.

### FEATURES

- Premium combination of zirconia grain and advanced bond system
- Q-Soft grade
- R-Medium grade
- S-Hard grade

### BENEFITS

- Superior performance compared to standard aluminum oxide wheels
- Highest productivity & lowest cost per cut
- Designed for steel, stainless steel, casts & white, grey & nodular cast iron applications
- For comfortable working
- Fast material removal
- Long wheel life



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.	
42	115	3,2x22,23	ZA 36 T	25	66252833137*	
		3,2x22,23	ZA 36 T	25	66252829555	
	125	4,6x22,23	ZA 30 Z	25	66252833140	
		3,2x22,23	ZA 30 T	25	66252833144*	
		4,0x22,23	ZA 30 T	25	66252833223	
	180	4,6x22,23	ZA 30 Z	25	66252832716	
		3,2x22,23	ZA 30 T	25	66252831531	
		4,0x22,23	ZA 30 T	25	66252833147	
		230	4,6x22,23	ZA 30 Z	25	66252833037

\* Made-to-order



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	115	7,0x22,23	ZA 30 S	25	66252832712*
			ZA 30 Z	25	66252832956
	125	7,0x22,23	ZA 30 S	25	66252829391
			ZA 30 S	25	66252833036
	150	7,0x22,23	ZA 30 Q	25	66252833224
			ZA 24 S	25	66252832724
	180	7,0x22,23	ZA 30 R	25	66252832723*
			ZA 24 S	25	66252831435
	230	7,0x22,23	ZA 24 R	25	66252832717
			ZA 24 Q	25	66252832692
			ZA 24 S	25	66252831448
				ZA 24 R	25
			ZA 30 Q	25	66252832693

\* Made-to-order

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore

CUTTING-OFF  
& GRINDING  
WHEELS

COATED  
ABRASIVES  
& BEARTEX

BONDED  
ABRASIVES

SUPER  
ABRASIVES

DIAMOND  
TOOLS

CLEANING,  
POLISHING  
& MASKING

PERSONAL  
PROTECTION  
EQUIPMENT

TECHNICAL  
INFORMATION



## MULTI-PURPOSE


**TYPE 41**


### FEATURES

- Cuts all materials
- Ultra thin
- Unique construction
- Low vibration
- Free of iron

### BENEFITS

- No more time loss due to machine or product changing
- Quicker cut with no contamination
- Less noise, dust & material loss
- Extremely precise straight cuts with burr-free results
- Reduced energy consumption
- Counteracts loading & wheelglazing when cutting non-ferrous or plastics

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	115	1,0x22,23	C 60 T	25	66252833258
		1,6x22,23	C 46 T	25	66252828951
	125	1,0x22,23	C 60 T	25	66252918924
		1,6x22,23	C 46 T	25	66252828952
	180	1,6x22,23	C 46 T	25	66252926730
	230	1,9x22,23	C 46 T	25	66252918925

# ALU



Norton Aluminium sets an industrial performance standard amongst conventional aluminum oxide grain technologies. It provides optimum performance to price ratio throughout all aluminum applications.

### FEATURES

- Advanced grain & bond system
- Suitable for aluminium applications
- Unique grain & bond system optimised for non-ferrous

### BENEFITS

- Longer product life & faster material removal
- No more time loss due to machine or product changing
- Counteracts loading & wheelglazing when cutting non-ferrous
- Longer product life & quicker cutting

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	125	7,0x22,23	A 36 Q	10	66252828228
	180	7,0x22,23	A 36 Q	10	66252828230
	230	7,0x22,23	A 36 Q	10	66252828232
41	115	1,0x22,23	A 60 Q	25	66252828236
		1,6x22,23	A 46 Q	25	66252828233
	125	1,0x22,23	A 60 Q	25	66252828237
		1,6x22,23	A 46 Q	25	66252828234
		2,5x22,23	A 36 Q	25	66252828227
	180	2,5x22,23	A 36 Q	25	66252828229
230	1,9x22,23	A 46 Q	25	66252828235	
42	230	3,0x22,23	A 36 Q	25	66252828231

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore

## OCTOPUS



## FEATURES

- Unique patterned face
- Visible surface
- Grinding & polishing with one product
- 2 grit sizes
- Low vibration
- No backing pad needed

## BENEFITS

- Prevents loading
- Cooler operation
- Complete vision of the grinding zone
- More effective as less rework needed
- No more lost time due to machine or product changing
- 36 grit for stock removal
- 60 grit for polishing

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
29	115	4,0x22,23	A 36 T	20	66252829991
			A 60 T	20	66252829992
	125	4,0x22,23	A 36 T	20	66252829993
			A 60 T	20	66252829994



# VULCAN



TYPE 41



TYPE 42



90°

## FEATURES

- For steel and stainless steel
- Free of iron, sulphur & chlorine
- Sharp aluminum oxide grains
- 80m/s

## BENEFITS

- No more lost time due to changing product or machine
- No stainless steel contamination
- Longer life and higher material removal
- High stability for straight cutting

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	115	1,0x22,23	A 60 S	25	66252925431**
		1,6x22,23	A 46 S	25	66252925432**
		2,0x22,23	A 30 S	25	66252925437**
		2,5x22,23	A 30 S	25	66252925442**
		3,0x22,23	A 30 S	25	66252925447**
	125	1,0x22,23	A 60 S	25	66252925433**
		1,6x22,23	A 46 S	25	66252925434**
		2,0x22,23	A 30 S	25	66252925438**
		2,5x22,23	A 30 S	25	66252925443**
		3,0x22,23	A 30 S	25	66252925448**
	150	2,0x22,23	A 30 S	25	66252925439**
		2,5x22,23	A 30 S	25	66252925444**
	180	1,6x22,23	A 46 S	25	66252925435**
		2,0x22,23	A 30 S	25	66252925440**
		2,5x22,23	A 30 S	25	66252925445**
		3,0x22,23	A 30 R	25	66252840200**
		3,0x22,23	A 30 S	25	66252925449**
	230	1,9x22,23	A 46 S	25	66252925436**
		2,0x22,23	A 30 S	25	66252925441**
		2,5x22,23	A 30 S	25	66252925446**
3,0x22,23		A 30 R	25	66252840202**	
3,0x22,23		A 30 S	25	66252925450**	
42	100	3,2x22,23	A 30 S	25	66252835417**
		2,5x22,23	A 30 S	25	66252925490**
	115	3,2x22,23	A 30 S	25	66252925494**
		2,5x22,23	A 30 S	25	66252925491**
	125	3,2x22,23	A 30 S	25	66252925495**
		3,2x22,23	A 30 S	25	66252925496**
	180	2,5x22,23	A 30 S	25	66252925492**
		3,2x22,23	A 30 S	25	66252925497**
	230	2,5x22,23	A 30 S	25	66252925493**
		3,2x22,23	A 30 S	25	66252925498**

\* Made-to-order

\*\* +30% performance upgrade

Dimensions Key: DIA = Diameter, T = Thickness, B = Bore

CUTTING-OFF & GRINDING WHEELS

COATED ABRASIVES & BEARTEX

BONDED ABRASIVES

SUPER ABRASIVES

DIAMOND TOOLS

CLEANING, POLISHING & MASKING

PERSONAL PROTECTION EQUIPMENT

TECHNICAL INFORMATION

## VULCAN



TYPE 27



## FEATURES

- Designed to cut steel and stainless steel
- Free of iron, sulphur & chlorine
- Sharp aluminum oxide grains
- S-Hard grade

## BENEFITS

- No more lost time due to changing product or machine
- No stainless steel contamination
- Longer life and higher material removal

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.	
27	100	6,4x16,0	A 30 S	10	66252926667*	
		115	4,0x22,23	A 30 S	10	66252925518*
	6,4x22,23		A 30 S	10	66252925522	
	125	4,0x22,23	A 30 S	10	66252925519	
		6,4x22,23	A 30 S	10	66252925523**	
		8,0x22,23	A 30 S	10	66252925524	
	150	6,4x22,23	A 30 S	10	66252925525	
	180	10,0x22,23	4,0x22,23	A 30 S	10	66252925528
			4,0x22,23	A 30 S	10	66252925520
			6,4x22,23	A 30 S	10	66252925526
			8,0x22,23	A 30 S	10	66252925527
	230	10,0x22,23	4,0x22,23	A 30 S	10	66252925531*
			4,0x22,23	A 30 S	10	66252925521
			6,4x22,23	A 30 S	10	66252925529
8,0x22,23			A 30 S	10	66252925530	

\* Made-to-order \*\* +30% performance upgrade

## VULCAN FAST CUT



TYPE 27



## FEATURES

- Sharp aluminium oxide grains
- Specially designed to cut steel and stainless steel
- Free of iron, sulphur & chlorine
- P-Medium grade

## BENEFITS

- Fast material removal
- Comfortable grinding
- No stainless steel contamination

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	115	6,4x22,23	A 30 P	10	66252830803
		125	6,4x22,23	A 30 P	10
	150	6,4x22,23	A 30 P	10	66252831014*
		180	6,4x22,23	A 30 P	10
	230		8,0x22,23	A 30 P	10
		6,4x22,23	A 30 P	10	66252830807

\* Made-to-order \*\* +30% performance upgrade

# VULCAN



## FEATURES

- Dedicated for stainless steel
- Free of iron, sulphur & chlorine
- Sharp aluminum oxide grains

## BENEFITS

- Fast and comfortable cutting and grinding
- No stainless steel contamination
- Longer life and higher material removal

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	115	6,4x22,23	A 30 S Inox	10	66252925513
	125	6,4x22,23	A 30 S Inox	10	66252925514
	150	6,4x22,23	A 30 S Inox	10	66252925515*
	180	6,4x22,23	A 30 S Inox	10	66252925516
	230	6,4x22,23	A 30 S Inox	10	66252925517
41	115	1,0x22,23	A 60 T Inox	25	66252833400
		1,6x22,23	A 46 T Inox	25	66252833401
		2,0x22,23	A 30 S Inox	25	66252835281*
		2,5x22,23	A 30 S Inox	25	66252833408*
	125	1,0x22,23	A 60 T Inox	25	66252833402
		1,6x22,23	A 46 T Inox	25	66252833403
		2,0x22,23	A 30 S Inox	25	66252835282*
		2,5x22,23	A 30 S Inox	25	66252833409
	150	1,6x22,23	A 46 T Inox	25	66252833404
		2,0x22,23	A 30 S Inox	25	66252835283*
		2,5x22,23	A 30 S Inox	25	66252833410*
	180	1,6x22,23	A 46 T Inox	25	66252833405*
		2,0x22,23	A 30 S Inox	25	66252835284*
		2,5x22,23	A 30 S Inox	25	66252925426*
	230	1,9x22,23	A 46 T Inox	25	66252833406
		2,0x22,23	A 30 S Inox	25	66252835285*
42	100	2,5x16,0	A 30 S Inox	25	66252925485*
	115	2,5x22,23	A 30 S Inox	25	66252925486*
	125	2,5x22,23	A 30 S Inox	25	66252925487
	180	2,5x22,23	A 30 S Inox	25	66252925488*
	230	2,5x22,23	A 30 S Inox	25	66252925489

\* Made-to-order

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore

CUTTING-OFF & GRINDING WHEELS

COATED ABRASIVES & BEARTEX

BONDED ABRASIVES

SUPER ABRASIVES

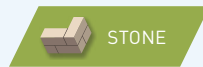
DIAMOND TOOLS

CLEANING, POLISHING & MASKING

PERSONAL PROTECTION EQUIPMENT

TECHNICAL INFORMATION

## VULCAN



TYPE 27

TYPE 41

TYPE 42



## FEATURES

- Dedicated for stone
- Sharp silicon carbide grains

## BENEFITS

- Fast and comfortable cutting and grinding
- Longer life and higher material removal

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	100	6,4x16,0	C 30 R	10	66252925532*
	115	6,4x22,23	C 30 R	10	66252925533
	125	6,4x22,23	C 30 R	10	66252925534
	180	6,4x22,23	C 30 R	10	66252925535
	230	6,4x22,23	C 30 R	10	66252925537
41	115	3,0x22,23	C 30 R	25	66252925452
	125	3,0x22,23	C 30 R	25	66252925453
	150	3,0x22,23	C 30 R	25	66252925454*
	180	3,0x22,23	C 30 R	25	66252925455*
	230	3,0x22,23	C 30 R	25	66252925456
42	100	3,2x16,0	C 30 R	25	66252925499*
	115	3,2x22,23	C 30 R	25	66252925500
	125	3,2x22,23	C 30 R	25	66252925501
	180	3,2x22,23	C 30 R	25	66252925502*
	230	3,2x22,23	C 30 R	25	66252925503

\* Made-to-order

## VULCAN WITH NORZON TECHNOLOGY



TYPE 27



## FEATURES

- Combination of zirconia and aluminium oxide grain
- Suitable for steel and cast iron applications

## BENEFITS

- Highest productivity
- Fast material removal
- Easy & comfortable grinding

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	125	7,0x22,23	ZA 24 R	10	66252838104
	150	7,0x22,23	ZA 24 R	10	66252838105*
	180	7,0x22,23	ZA 24 R	10	66252838106*
	230	7,0x22,23	ZA 24 R	10	66252838107*

\* Made-to-order

# STARLINE

**GOOD +++**

Norton Starline provides a complete, convenient offer for all metal work applications with a full range of sizes for angle grinders. Provides good material removal rates, fast cutting, reduced vibration for comfortable working and consistent performance for improved part quality.

**FEATURES**

- Suitable for steel, stainless steel, cast iron and stone

**BENEFITS**

- Fast material removal
- Good price / quality ratio



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	115	1,0x22,23	A 60 R	25	66252837243**
		1,0x22,23	A 60 R - SET*	10	66252837575**
	125	1,0x22,23	A 60 R	25	66252837245**
		1,0x22,23	A 60 R - SET*	10	66252837576**
		1,6x22,23	A 46 R	25	66252837246**
		1,6x22,23	A 46 R - SET*	10	66252837577**
	180	1,6x22,23	A 46 R	25	66252837247**
	230	2,0x22,23	A 36 R	25	66252837248

\* Minimum order quantity - 20 sets  
\*\* +30% performance upgrade

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore

CUTTING-OFF & GRINDING WHEELS  
COATED ABRASIVES & BEARTEX  
BONDED ABRASIVES  
SUPER ABRASIVES  
DIAMOND TOOLS  
CLEANING, POLISHING & MASKING  
PERSONAL PROTECTION EQUIPMENT  
TECHNICAL INFORMATION



METAL

TYPE 27



TYPE 41



TYPE 42



30°



90°



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
27	115	6,0x22,23	A 24 Q	10	66252837263
	125	6,0x22,23	A 24 Q	10	66252837264**
	180	6,0x22,23	A 24 Q	10	66252837268
	230	6,0x22,23	A 24 Q	10	66252837269
41	115	2,5x22,23	A 30 P	25	66252837249
	125	2,5x22,23	A 30 P	25	66252837250
	180	2,5x22,23	A 30 P	25	66252837251
	230	2,5x22,23	A 30 P	25	66252837253
42	115	3,0x22,23	A 30 P	25	66252837275*
	125	3,0x22,23	A 30 P	25	66252837276
	180	3,0x22,23	A 30 P	25	66252837277
	230	3,0x22,23	A 30 P	25	66252837278

\* Made-to-order

\*\* +30% performance upgrade



STONE

TYPE 42



30°



90°



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
42	230	3,0x22,23	C 30 R	25	66252837284

# WHEELS FOR PETROL SAWS

Norton's wide range of cutting wheels for petrol saws provide high value and high performance industrial solutions.

## APPLICATIONS & MARKETS

- Construction
- Demolition



CUTTING-OFF  
& GRINDING  
WHEELS

COATED  
ABRASIVES  
& BEARTEX

BONDED  
ABRASIVES

SUPER  
ABRASIVES

DIAMOND  
TOOLS

CLEANING,  
POLISHING  
& MASKING

PERSONAL  
PROTECTION  
EQUIPMENT

TECHNICAL  
INFORMATION

## VULCAN

BETTER ++++

### FEATURES

- Designed for petrol and electrical saws
- Sharp silicon carbide and aluminum oxide grains
- 80m/s

### BENEFITS

- Optimized for cutting steel, stone, bricks and concrete
- Longer life and fast cutting
- High stability for straight cutting



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	300	3,5x20,0	A 30 S	10	66252925457
		3,5x22,23	A 30 S	10	66252925458*
		3,5x25,4	A 30 S	10	66252925459*

\* Made-to-order

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore

# WHEELS FOR CHOP SAWS

Norton's wide range of cutting wheels for chop saws provide high value and high performance industrial solutions.

## APPLICATIONS & MARKETS

- Construction
- Fabrication
- Foundry
- Maintenance



CUTTING-OFF  
& GRINDING  
WHEELS

COATED  
ABRASIVES  
& BEARTEX

BONDED  
ABRASIVES

SUPER  
ABRASIVES

DIAMOND  
TOOLS

CLEANING,  
POLISHING  
& MASKING

PERSONAL  
PROTECTION  
EQUIPMENT

TECHNICAL  
INFORMATION

## VULCAN

BETTER ++++



TYPE 41



### FEATURES

- Advanced grain and bond system
- High quality mechanical reinforcement
- 80m/s

### BENEFITS

- Longer wheel life
- Quick and free cutting
- Maximum safety
- High stability for straight cutting
- Designed for portable metal chop saws and for fixed machines

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.	
41	300	2,8x25,4	A 30 S	10	66252925460*	
		3,0x25,4	A 30 S	10	66252925462	
	350	3,0x32,0	A 30 S	10	66252925463*	
		400	3,2x25,4	A 30 S	10	66252925464*
			3,2x32,0	A 30 S	10	66252925465*

\* Made-to-order

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore



# WHEELS FOR RAIL

The Norton Rail range provides high performance wheels for demanding operations. Rail cutting requires precision, speed and power and Norton Rail is a complete program of cutting wheels suitable for any rail type (subway, tram, train) and any rail cutting machine with a clamping device (electrical and petrol).

## APPLICATIONS & MARKETS

- Rail industry



CUTTING-OFF  
& GRINDING  
WHEELS

COATED  
ABRASIVES  
& BEARTEX

BONDED  
ABRASIVES

SUPER  
ABRASIVES

DIAMOND  
TOOLS

CLEANING,  
POLISHING  
& MASKING

PERSONAL  
PROTECTION  
EQUIPMENT

TECHNICAL  
INFORMATION

## RAIL

BETTER ++++

### FEATURES

- Sharp aluminum oxide grain & optimized bond
- Zirconia grain & optimized bond
- Optimized bond and wheel density
- 3 specifications available: soft, medium, hard
- Glass cloth reinforcement

### BENEFITS

- Precise cut
- Fast cutting speed
- White cuts and free cutting
- Optimised for use on steel and railways
- Perfect straight cut without any deviation
- Low vibration on the machine for better user comfort and longer work periods
- Consistent performance for improved quality of cut
- Minimal wheel wear
- Covers all rail machine horsepower and all rail types: subway, tramway, train
- Suitable for use on powerful machines running at 100m/s for 350mm wheels and 80m/s for 300mm wheels
- Maximum safety for the operator



TYPE 41



INNOVATION

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	300	4,0x25,4	ZA 24 Q	10	66252833664*
	350	4,0x25,4	ZA 24 Q	10	66252830924
	400	4,0x25,4	ZA 24 Q	10	66252833665

\* Made-to-order

RAIL  
METAL

TYPE 41



90°



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	300	3,5x20,0	A 24 T	10	66252829589
		3,5x22,23	A 24 T	10	66252829585*
	350	4,0x20,0	A 24 T	10	66252829586
			A 24 T	10	66252829587
		4,0x25,4	ZA 24 T	10	66252832744
			A 24 T	10	66252829588
			A 24 P	10	66252828620
			A 24 Q	10	66252833554
	400	4,0x25,4	A 24 P	10	66252919130

\* Made-to-order

# WHEELS FOR STATIONARY MACHINES

Norton's wide range of cutting wheels for stationary machines provide high value and high performance industrial solutions.

## APPLICATIONS & MARKETS

- Construction
- Fabrication
- Foundry



CUTTING-OFF  
& GRINDING  
WHEELS

COATED  
ABRASIVES  
& BEARTEX

BONDED  
ABRASIVES

SUPER  
ABRASIVES

DIAMOND  
TOOLS

CLEANING,  
POLISHING  
& MASKING

PERSONAL  
PROTECTION  
EQUIPMENT

TECHNICAL  
INFORMATION

## VULCAN

BETTER ++++

### FEATURES

- Advanced grain bond system
- Optimised for cutting steel, stainless steel, concrete and cast iron
- Double, full external mechanical reinforcement
- 80m/s

### BENEFITS

- Longer wheel life
- Quick and free cutting
- Cutting without burn layers and splinters
- No contamination of stainless steel
- Maximum safety
- High stability and straight cutting
- Designed for fixed machines



TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	300	3,5x32,0	C 30 R	10	66252925482*
	350	4,0x32,0	C 30 R	10	66252925483
	400	4,5x32,0	C 30 R	10	66252925484
		5,0x32,0	C 24 R	10	66252838304*

\* Made-to-order

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore



METAL

TYPE 41



90°

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	SPEED [m/s]	PK QTY	ART NO.	
41	300	3,0x32,0	A 30 S	80	10	66252925466	
		3,0x32,0	A 30 S	100	10	66252925475	
		3,0x32,0	A 30 T	80	10	66252843820*	
		3,5x25,4	A 30 S	80	10	66252925467*	
		3,5x30,0	A 30 S	80	10	66252835384*	
		3,5x32,0	A 30 S	80	10	66252925468	
	350	3,5x32,0	A 30 S	100	10	66252836858*	
		3,5x25,4	A 30 S	80	10	66252925469	
		3,5x32,0	A 30 S	80	10	66252925470	
		3,5x32,0	A 30 S	100	10	66252925476	
	400	4,0x32,0	A 30 S	80	10	66252925471	
		3,5x25,4	A 30 S	80	10	66252833890*	
		4,0x25,4	A 30 S	80	10	66252925472	
		4,0x25,4	A 30 S	100	10	66252925477	
		4,0x32,0	A 30 S	80	10	66252925473	
		4,0x32,0	A 30 S	100	10	66252925478	
			4,5x32,0	A 30 S	80	10	66252925474
			4,0x40,0	A 30 S	80	10	66252830812*

\* Made-to-order



INOX

TYPE 41



90°

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	300	3,0x32,0	A 30 S	10	66252830808*
	350	3,5x32,0	A 30 S	10	66252833646
	400	4,0x32,0	A 30 S	10	66252830811*

\* Made-to-order

# STARLINE

**GOOD +++**



**TYPE 41**



### FEATURES

- Dedicated for steel

### BENEFITS

- Good price/quality ratio
- Stable cut

TYPE	DIA (mm)	TxB (mm)	SPECIFICATION	PK QTY	ART NO.
41	300	3,0x32,0	A 30 R	10	66252843841
	350	3,5x32,0	A 30 R	10	66252843842
	400	4,0x32,0	A 30 R	10	66252843843

**Dimensions Key:** DIA = Diameter, T = Thickness, B = Bore

CUTTING-OFF & GRINDING WHEELS

COATED ABRASIVES & BEARTEX

BONDED ABRASIVES

SUPER ABRASIVES

DIAMOND TOOLS

CLEANING, POLISHING & MASKING

PERSONAL PROTECTION EQUIPMENT

TECHNICAL INFORMATION





# 69-270

## COATED ABRASIVES & BEARTEX NON-WOVENS



COATED  
ABRASIVES  
& BEARTEX

BONDED  
ABRASIVES

SUPER  
ABRASIVES

DIAMOND  
TOOLS

CLEANING,  
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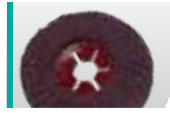
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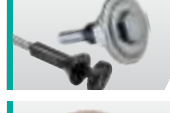
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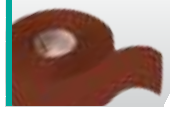
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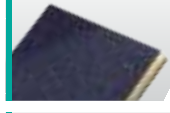
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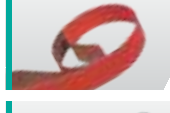
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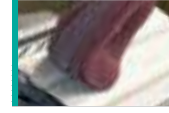
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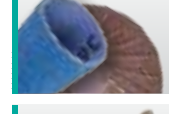
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ABRASIVES

SUPER  
ABRASIVES

DIAMOND  
TOOLS

CLEANING,  
POLISHING  
& MASKING

PERSONAL  
PROTECTION  
EQUIPMENT

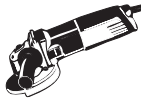
TECHNICAL  
INFORMATION

† To help better describe the abrasive fixing system we have changed the name from 'NorGrip' to 'Self-Grip'.



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## ANGLE GRINDER



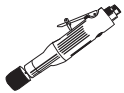
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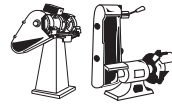
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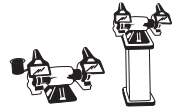
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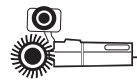
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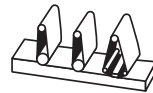
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<sup>†</sup> To help better describe the abrasive fixing system we have changed the name from 'NorGrip' to 'Self-Grip'.

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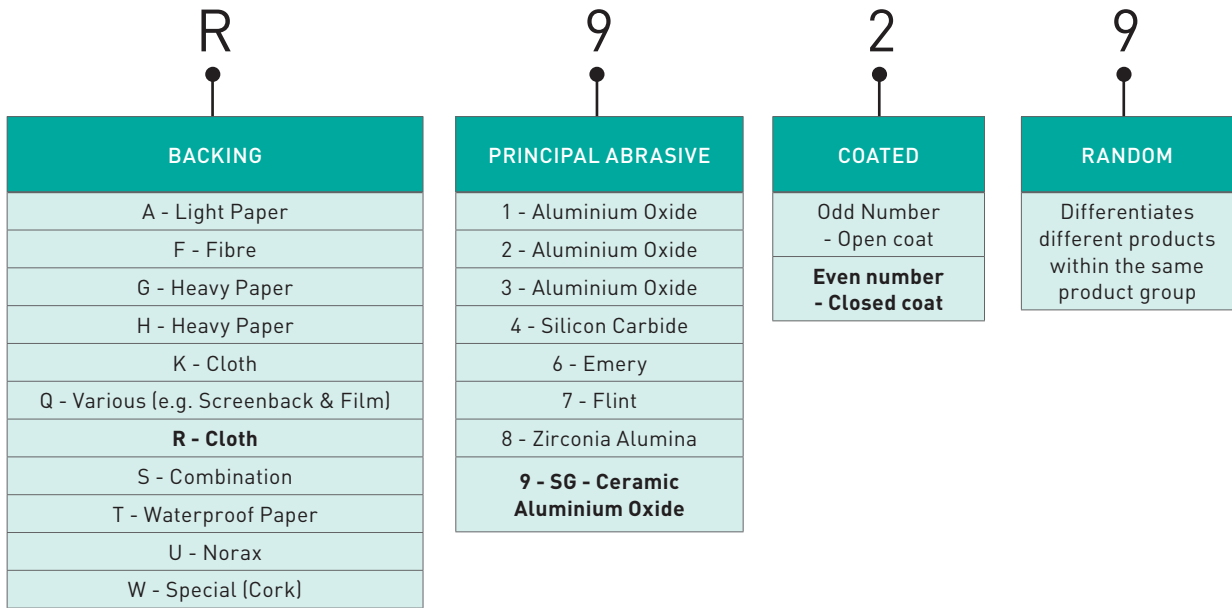
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# INTRODUCTION

The Norton coated abrasive and Beartex product offering encompasses a complete range of belts, discs, rolls, sheets and flap wheels for all your polishing, welding, maintenance and repair operations needs. This extensive product range includes products designed for all types of application, including heavy stock removal, dimensioning, grinding, deburring, cleaning, blending, polishing and finishing operations.

## UNDERSTANDING THE PRODUCT

### COATED ABRASIVES



#### BACKING TYPES

Whether paper, cloth, vulcanised fibre or polyester film, the backing must be smooth enough for uniform adhesive coating, strong enough to withstand grinding pressures and flexible enough to conform to contours if necessary.

#### ABRASIVE BONDS

There are two main types of adhesives in use, one based on animal glue, and the more common based on synthetic heat hardenable resins. The adhesive is applied with a minimum of two bonding applications.

The first, or maker, coat adheres the abrasive grain to the backing ensuring proper anchoring and orientation. After drying, or curing, the second, or sizer, coat is applied. The sizer adhesive, united with the maker bond, provides final grain anchoring and the proper total adhesive level for the finished product.

#### ABRASIVE TYPES

The ideal abrasive grain offers maximum resistance to point wear, yet fractures before serious dulling occurs, thereby satisfying both stock removal and finishing requirements.

#### NATURAL ABRASIVES

Emery is a natural composite of corundum and iron oxide. The particles are blocky in shape and tend to cut slowly, thereby producing a polishing action on the material being abraded. Used for general maintenance and polishing of metals and in very fine grits for highly technical polishing, such as preparing metallurgical specimens requiring very close tolerances. Emery products are black in colour.

## SYNTHETIC ABRASIVES

- Aluminium oxide is tough and well adapted to grinding high tensile materials, such as carbon steel, alloy steels, tough bronze and hard woods. Wherever toughness (ability to resist fracturing) is the main consideration, aluminium oxide out performs all other coated abrasive grains
- Silicon carbide is the hardest and sharpest of the minerals used in coated abrasives. Its hardness and sharpness make it the ideal abrasive for sanding non-ferrous metals (aluminium, brass, bronze, magnesium, titanium, etc.), rubber, glass, plastics, fibrous woods, enamel and other relatively soft materials. Silicon carbide is superior to any other abrasive in its ability to penetrate and cut faster under light pressure
- Zirconia alumina has a unique self-sharpening characteristic which gives it long life on rugged stock removal operations. Zirconia alumina is well suited for heavy grinding of metals and planing of wood, because the controlled fracturing of the grain continuously produces sharp, new abrading points
- Ceramic aluminium oxide is a long-lasting, tough, dense abrasive due to its micro structure. The extremely small micron size particles break off during grinding, producing multiple new cutting edges. As it stays sharp, especially when used in medium and high pressure operations, it cuts at a higher rate than other abrasives. Recommended for use on forged and carbon steels, high nickel and cobalt alloys.









## DIFFERENTIATION IN THE RANGE

Norton offers the industry's widest selection of coated abrasives to meet every customer requirement. The wide range of abrasive types used in the range are classified into 3 tiers by product shape (Best/ Better/ Good) to help you choose the right product for your specific application.

<b>BEST +++++</b> INNOVATION	Using unparalleled abrasive technology, and extremely high performance abrasive grains, Norton provides innovative product solutions dedicated to improving productivity in all industrial applications
<b>BEST +++++</b>	These technologically advanced products meet the demands of the most discerning user giving the highest productivity and the longest product life for the lowest operating costs
<b>BETTER +++++</b>	The core of the Norton Coated Abrasive offering. These products are designed to give superior performance solutions in all abrasive applications, giving high productivity levels and low total abrasive costs
<b>GOOD +++</b>	Standard Norton products that give highly durable solutions with good performance levels

## PRODUCT SELECTION GUIDE

Norton offers a diverse range of products that are suitable for all commonly encountered industrial applications. To enable more effective product selection an overview of appropriate products for the main applications is given in the following pages. Pictograms and colours are used to represent the applications and these are repeated with the product details in the main section.

 FERROUS	 NON-FERROUS	
 HARD WOOD	 SOFT WOOD	 PAINT & VARNISH
 GLASS ARISING		
 STONE		
 SHOE REPAIR		

For further information please go to the Technical Information Section at the back of this catalogue.

COATED ABRASIVES & BEARTEX

BONDED ABRASIVES

SUPER ABRASIVES

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# PRODUCT AVAILABILITY TABLE

Key: Grit availability

	Standard Norton products		Available also in Self-Grip†
	Generic backprint		Soft-Touch
	Cancelled - stock will not be replenished		
	Planned		

Key: Shape availability

	Standard availability
	Specific availability (BSG only, P600 only, stock only)
	Restricted availability (no BFL)
	Available only in full jumbo width

## A,B,C WEIGHT PAPER PRODUCTS

PRODUCT CODE	BACKING	ABRASIVE	PRODUCT COLOUR	BOND	COMMENTS	USEABLE WIDTH (mm)	GRIT SIZE														
							NO GRIT	5µ-3000	8µ-2500	10µ-2000	12µ-1500	16µ-1200	1000	800	600	500	400	360	320		
A213	B/C	AO	Beige	UF/UF	P36 to P80 with C-wt	Sheets															
A233F	B/C	AO	Beige	UF/UF	No fil treatment with FSC paper. Availability in June 2013.	Sheets															
A255	B	AO	Brown	UF/UF	Non stearate No Fil																▲
A275	B/C	AO	Brown	UF/UF	No Fil, P80 to P120 in C-Weight. Finer in B-Weight	1380					S	S	S	▲	▲	▲	▲	▲	▲	▲	S
A975	B/C	SG/AO	Blue	UF/UF	No Fil, P80 to P120 in C-Weight. Finer in B-Weight	1380					S		S	▲	▲	▲	▲	▲	▲	▲	S
A726	C	Flint	Beige	G/G	Special flint grading	Stock sheets															
A296	B	AO	Yellow	UF/UF	No Fil	1380															

## WATERPROOF PAPER PRODUCTS

PRODUCT CODE	BACKING	ABRASIVE	PRODUCT COLOUR	BOND	COMMENTS	USEABLE WIDTH (mm)	GRIT SIZE														
							4,000	5µ-3000	8µ-2500	10µ-2000	12µ-1500	16µ-1200	1000	800	600	500	400	360	320		
T100	B/C	AO	Red	PF/PF		Stock sheets															
T221	C	AO	Black	PF/PF		Stock sheets															
T489	B/C	SiC	Black	PF/PF	P60 to P150 in C-wt	Stock sheets															
T417	B/C	SiC	Black	PF/PF	P60 to P150 in C-wt	Stock sheets															
T401	A	SiC	Black	V/PF		Stock only															
L41PC	C	SiC	Black		C-wt	482															
T278	B/C	AO	Black	PF/PF	P60 to P150 in C-wt	Stock sheets															

† To help better describe the abrasive fixing system we have changed the name from ‘NorGrip’ to ‘Self-Grip’.

GRIT SIZE																SHAPE AVAILABILITY						
280	240	220	180	150	120	100	80	60	50	40	36	30	24	20	16	PRODUCT CODE	BELTS W ≤ 400mm	BELTS W > 400mm	DISCS	STD SHEETS	OTHER SHEETS	ROLLS
																A213				Stock		FW
																A233F				Stock		FW
																A255						
▲ S	▲ S	▲ S	▲ S	▲ S	▲ S	▲	▲									A275			▲ S	Stock	▲	FW/Rotolo
▲	▲	▲	▲	▲	▲		▲									A975			▲ S		▲	FW
				3/0	2/0	0	12	3	4	5	6					A726				Stock		
																A296			Stock			Rotolo

GRIT SIZE																SHAPE AVAILABILITY						
280	240	220	180	150	120	100	80	60	50	40	36	30	24	20	PRODUCT CODE	BELTS W ≤ 400mm	BELTS W > 400mm	DISCS	STD SHEETS	OTHER SHEETS	ROLLS	
															T100							FW
															T221				Stock			FW
															T489				Stock			FW
															T417				Stock			
															T401				Stock			
															L41PC				Stock			FW
															T278				Stock			

COATED ABRASIVES & BEARTEX

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## E AND F WEIGHT PAPER PRODUCTS

PRODUCT CODE	BACKING	ABRASIVE	PRODUCT COLOUR	BOND	COMMENTS	USEABLE WIDTH (mm)	GRIT SIZE																	
							NO GRIT	5µ-3000	8µ-2500	10µ-2000	12µ-1500	14µ-1200	1000	800	600	500	400	360	320					
G156F	E*	AO	Green	UF/UF	FSC paper	1380																		
A277	E*	AO	Salmon	UF/UF	No Fil	1380																		
G131F	E*	AO	Yellow	UF/G	FSC paper	1380																		
G133F	B /C	AO	Yellow	UF/G	FSC paper	1380																		
H216F	E*	AO	Brown	UF/G		1380																		▲
H259	F	AO	Maroon	PF/PF	Antistatic, open coat	1430																		
H231	F+	AO	Maroon	PF/PF	Antistatic, open coat	1430																		▲
H235	F	AO	Maroon	UF/UF	Open Coat	1430																		▲
H425	E,F	SiC	Black	UF, PF 240+f 220+C PF	Open coat	1430																		▲
H835F Blue Fire	F	NZ/AO	Blue	PF/PF	FSC paper, open coat	1420																		
H822	F+	NZ	Blue	PF/PF	Closed coat	1420																		

E\* = 185gr F+ = 270gr

## FILM PRODUCTS

PRODUCT CODE	BACKING	ABRASIVE	PRODUCT COLOUR	BOND	COMMENTS	USEABLE WIDTH (mm)	GRIT SIZE																	
							1µ	1.5µ	3µ	5µ-3000	6µ	7µ	8µ-2000	9µ	10µ-1500	12µ-1500	15µ-1200	18µ-1000	19µ-1000	20µ-800				
Q255	Foam	AO	Coloured by grit	PF	Velcro backing	1500																		
Q175 Pure Ice	3 mil film	AO White	White	UV	No Fil	Stock only																		▲
Q275	3 mil film	AO White	Yellow	UV	No Fil	1380																		▲
Q132	3 mil film	AO	Coloured by grit	UV																				
Q135	3 mil film	AO White	Coloured by grit	UV	Ophthalmic markets																			
Q351R	5 mil film	AO White	Coloured by grit	New high performance resin	Rough Backcoat																			
Q351S	5 mil film	AO White	Coloured by grit	New high performance resin	Smooth Backcoat																			
Q361	3 mil film	AO WHITE	Coloured by grit	UV	Ophthalmic markets																			
L12F3	3 mil film	AO White	Coloured by grit		Lapping film	330																		
L41F3	3 mil film	SIC	Gray		Lapping film	330																		
L61F3	3 mil film	Diamond	Coloured by grit		Lapping film	330																		
L67F3	3 mil film	Diamond	Coloured by grit		Lapping film	330																		
M631	3 mil film	Nanozyte Diamond	Tan		Lapping film Nanozyte																			

GRIT SIZE																SHAPE AVAILABILITY						
280	240	220	180	150	120	100	80	60	50	40	36	30	24	20	16	PRODUCT CODE	BELTS W ≤ 400mm	BELTS W > 400mm	DISCS	STD SHEETS	OTHER SHEETS	ROLLS
					▲		▲	▲								G156F						
																A277		BWD				FW
			▲		▲		▲				▲					G131F						FW
																G133F						
		▲		▲	▲	▲	▲	▲	▲	▲	▲					H216F						
																H259		BWD				
	▲		▲	▲	▲	▲	▲	▲	▲	▲	▲					H231						Self-Grip* in FW
	▲		▲	▲	▲	▲	▲	▲	▲	▲	▲					H235						
			▲	▲		▲	▲	▲	▲	▲	▲					H425		BWD				FW
				▲		▲	▲	▲	▲		▲					H835F Blue Fire						FW
																H822						FW

\* To help better describe the abrasive fixing system we have changed the name from 'NorGrip' to 'Self-Grip'.

GRIT SIZE																SHAPE AVAILABILITY									
22µ-800	25µ-600	30µ-500	35µ-400	40µ	45µ	46µ-320	50µ	53µ-280	59µ-240	60µ-220	73µ-180	75µ	80µ	90µ-150	100µ	110µ-120	180µ-80	200µ	PRODUCT CODE	BELTS W ≤ 400mm	BELTS W > 400mm	DISCS	STD SHEETS	OTHER SHEETS	ROLLS
																			Q255						
																			Q175 Pure Ice						
	▲	▲	▲	▲	▲	▲	▲		▲	▲	▲	▲	▲	▲		▲	▲		Q275						
																			Q135						
																			Q135						
																			Q351R						
																			Q351S						
																			Q361						
																			L12F3						
																			L41F3						Rolls 101 & 203mm
																			L61F3						Rolls 101 & 203mm
																			L67F3						Rolls 101 & 203mm
																			M631						

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## FIBRE AND SCREENBACK PRODUCTS

PRODUCT CODE	BACKING	ABRASIVE	PRODUCT COLOUR	BOND	COMMENTS	USEABLE WIDTH (mm)	GRIT SIZE																
							NO GRIT	5µ-3000	8µ-2500	10µ-2000	12µ-1500	16µ-1200	1000	800	600	500	400	360	320				
F100	0,6/0,8	AO	Maroon	PF/PF	P16 to P50 in 0,8																		
F293	0,8	AO	Maroon	PF/PF																			
F425	0,8	SIC	Black	PF/PF																			
F827	0,8	NZ/AO	Blue	PF/PF																			
F975	0,8	SG	Green	PF/PF																			
F996 Norton Quantum	0,8	SG	Red	PF/PF	Supersize																		
Q421	Grid	SIC	Black	PF/PF	Screenbak	1150																	
Q263	Grid (fine)	AO	Green	PF/PF	Screenbak																		

## COTTON CLOTH PRODUCTS

PRODUCT CODE	BACKING	ABRASIVE	PRODUCT COLOUR	BOND	COMMENTS	USEABLE WIDTH (mm)	GRIT SIZE																
							NO GRIT	5µ-3000	8µ-2500	10µ-2000	12µ-1500	16µ-1200	1000	800	600	500	400	360	320				
K625	J light	Emery	Black	G/G	'Emery cloth'	Stock sheets																	
R202	J cotton	AO	Maroon	PF/PF		1400																	
R207	X cotton	AO	Maroon	PF/PF	Flap wheel only	1500																	
R212	J cotton	AO	Black	UF	Handy rolls	1400																	
R222	J cotton	AO	Maroon	PF/PF	Handy rolls	1150																	
R230	X cotton	AO	Maroon	PF/PF		1500																	
R265	X cotton	AO	Maroon	PF/PF	Flap Disc	1500																	
R287	J cotton	AO	Maroon	PF/PF		1400																	
R309	JJ cotton	AO	Red/Brown	PF/PF		1400																	
R376	JJ cotton	AO	Green	PF/PF	Special stainless steel	1400																	
R423	J cotton	Aggreg SiC	Black	PF/PF	Closed coat	1400																	
R426	JJ cotton	SiC	Black	PF/PF	Special brass and non ferrous metals	1400																	
R427	X cotton	SiC	Black	PF/PF		1430																	
R822	X cotton	NZ/AO	Blue	PF/PF		1500																	
R842	X cotton	NZ/AO	Blue	PF/PF	Flap Disc	1500																	
R828	X polycotton	NZ	Blue	PF/PF	Flap Disc	1500																	
R82A	X cotton	AO/NZ	Blue	PF/PF	Belt/Flap disc	1500																	
R82B	X cotton	AO/NZ	Blue	PF/PF	Flap Disc	1500																	
R926	X cotton	SG/AO	Red	PF/PF	Supersize	1500																	
R928	PolyCotton	SG	Pink	PF/PF	Flap Disc	1500																	
R946	J PolyCotton	SG/AO	Red	PF/PF	Supersize + Superflexible	1500																	
RX22	X cotton	Delta/AO	Green	PF/PF		1500																	



GRIT SIZE																SHAPE AVAILABILITY							
280	240	220	180	150	120	100	80	60	50	40	36	30	24	20	16	PRODUCT CODE	BELTS W ≤ 400mm	BELTS W > 400mm	DISCS	STD SHEETS	OTHER SHEETS	ROLLS	
																F100							
																F293							
																F425							
																F827							
																F975							
																F996 Norton Quantum							
																Q421				Stock			FW
																Q263							

GRIT SIZE																SHAPE AVAILABILITY							
280	240	220	180	150	120	100	80	60	50	40	36	30	24	20	16	PRODUCT CODE	BELTS W ≤ 400mm	BELTS W > 400mm	DISCS	STD SHEETS	OTHER SHEETS	ROLLS	
			Very Fine	Fine	Medium	Coarse	Very Coarse									K625				Stock			
																R202							
																R207							FW
																R212				Stock			FW
																R222	P600			Stock			FW
																R230		BWD					
																R265		BWD					
																R287							
																R309							
																R376							
																R423							FW
																R426							FW
																R427		BWD					
																R822		BWD					FW
																R842							FW
																R828							
																R82A	DIY						
																R82B							
																R926							
																R928							
																R946							
																RX22							FW

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POLYESTER CLOTH PRODUCTS (EXCEPT CHIPBOARD)

PRODUCT CODE	BACKING	ABRASIVE	PRODUCT COLOUR	BOND	COMMENTS	USEABLE WIDTH (mm)	GRIT SIZE																
							NO GRIT	5µ-3000	8µ-2500	10µ-2000	12µ-1500	1100	1000	800	600	500	400	360	320				
R293	X/Y poly	AO	Maroon	PF/PF	P24 to P60 with 10% SG	1500																	
R270	Y poly	Aggreg AO	Maroon	PF/PF	Closed coat	1400																	
R275	Y poly	Aggreg AO	Maroon	PF/PF	Open coat	1400																	
R279	Y poly	Aggreg AO	Maroon		Closed coat strong bond	1400																	
R445	X/Y poly	SiC	Black	PF/PF		1400																	
R473	Y poly	Aggreg SiC	Maroon	PF/PF		1400																	
R817	Y poly	NZ	Blue	PF/PF	Open coat	1500																	
R872	Y/X Poly	New NZ	Blue	PF/PF	Blue Force - Open coat	1500																	
R874	YY/Y Poly	New NZ	Blue	PF/PF	Blue Force	1500																	
R876	YY/Y Poly	New NZ	Blue	PF/PF	Blue Force - Supersize	1500																	
R929	X poly	New SG/AO	Green	PF/PF		1500																	
R984	Y poly	SG/AO	Maroon	PF/PF		1500																	
RX84	Y poly	Delta/AO	Green	PF/PF		1500																	
R976P	Y poly	SG/AO	Pink	PF/PF	Supersize	1500																	
R976 Red-X	Y poly	SG/AO	Red	PF/PF	Supersize	1500																	
RX66	Y poly	Delta/AO	Green	PF/PF	Supersize	1500																	
R996 Viking	YY/Y Poly	New SG	Red	PF/PF	Flap Disc - Supersize	1500																	
W441	X cotton	SiC/Cork	Black	PF/PF	Waterproof	1400																	
W445	Y poly	Cork	Beige	PF/PF	Cork polishing	1320																	
W448	Y poly	SiC/Cork	Black	PF/PF	Waterproof Cork polishing							US						US				US	

PRODUCTS FOR CHIPBOARD AND OTHER COMBINATIONS

PRODUCT CODE	BACKING	ABRASIVE	PRODUCT COLOUR	BOND	COMMENTS	USEABLE WIDTH (mm)	GRIT SIZE																
							NO GRIT	5µ-3000	8µ-2500	10µ-2000	12µ-1500	16µ-1200	1000	800	600	500	400	360	320				
R496	YY poly	SiC	Black	PF/PF	Antistatic	1440																	
S88XL	YY poly	SiC	Black	PF/PF		1400																	
S413	Light combi	SiC	Black	PF/G	Open coat	1430																	
S422	Light combi	SiC	Black	PF/G	Closed coat	1430																	
S496	Heavy combi	SiC	Black	PF/PF	Antistatic	1440																	
H496	400g paper	SiC	Black	PF/PF	Antistatic	1440																	

GRIT SIZE																SHAPE AVAILABILITY								
	280	240	220	180	150	120	100	80	60	50	40	36	30	24	20	16	PRODUCT CODE	BELTS W <sub>≤</sub> 400mm	BELTS W <sub>&gt;</sub> 400mm	DISCS	STD SHEETS	OTHER SHEETS	ROLLS	
																	R293							
																	R270							FW
																	R275							FW
																	R279							
																	R445							
																	R473							FW
																	R817							
																	R872							
																	R874							
																	R876							
																	R929							
																	R984							
																	RX84							
																	R976P							
																	R976 Red-X							
																	RX66							
																	R996 Viking							
																	W441							
																	W445							
																	W448							FW

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GRIT SIZE																SHAPE AVAILABILITY								
	280	240	220	180	150	120	100	80	60	50	40	36	30	24	20	16	PRODUCT CODE	BELTS W <sub>≤</sub> 400mm	BELTS W <sub>&gt;</sub> 400mm	DISCS	STD SHEETS	OTHER SHEETS	ROLLS	
																	R496		BSG					FW
																	S88XL		BWD					FW
														▲		▲	S413		BSG					Self-Grip <sup>†</sup> in FW
																	S422		BWD					
																	S496		BSG					FW
																	H496							FW

<sup>†</sup> To help better describe the abrasive fixing system we have changed the name from 'NorGrip' to 'Self-Grip'.

## NORaX PRODUCTS

PRODUCT CODE	BACKING	ABRASIVE	PRODUCT COLOUR	BOND	COMMENTS	USEABLE WIDTH (mm)	GRIT SIZE															
							NO GRIT	5µ-3000	8µ-2500	10µ-2000	12µ-1500	14µ-1200	1000	800	600	500	400	360	320			
U243	J Coton Rayon	A/O	Grey	UV	NORaX fine tri-hellcal	600							X16		X22				X30		X45	
U234	XF cotton	A/O	Brown / White	UV	NORaX quad	600															X45	
U254	XF cotton	A/O	Brown / White	UV	NORaX pyramid	600		X5					X16		X22				X30		X45	
U264	XF cotton	A/O	Brown / White	UV	NORaX tri-helical	600							X16		X22				X30		X45	
U366	Y poly	AO	Grey	UV	NORaX tri-helical	600		X5					X16		X22				X30		X45	
U336	Y poly	AO	White	UV	NORaX quad	600							X16		X22				X30		X45	
U464	XF cotton	SIC	Green	UV	NORaX tri-helical	600																
U466	Y Poly	SIC	Green	UV	NORaX tri-helical	600																
U936	Y poly	SG	Grey	UV	NORaX quad	600							X16						X30		X45	

## SCM CAP CODE OVERVIEW: AVAILABLE IN BELTS AND DISCS

POPULAR FORM	UNIVERSAL GRADE	MINERAL	NORTON DESCRIPTION / GRADE	FORMER NORTON MCC	NEW RAPID PREP		
					RAPIDPREP AO MCC	VORTEX RAPIDPREP MCC	
Belts/ Discs	Extra Coarse	A0	DSB extra coarse	S2112	S2108	S2103	RapidPrep LF (SCRIM BACK)
	Heavy Medium	A0	DSB heavy medium	S2312			
Discs	Coarse	A0	DSB coarse	S2211	S2208	S2203	
	Medium	A0	DSB medium	S2311	S2308	S2303	
	Fine	A0			S2408	S2403	
	Very Fine	A0	DSB very fine	S2511	S2508	S2503	
Belts (low Stretch)	Coarse XS LS	A0	DSJ Coarse	S2213	S2228	S2223	RapidPrep RF
	Medium XS LS	A0	DSJ medium	S2313	S2328	S2323	
	Fine	A0	Fine		S2428	S2423	
	Very Fine XS LS	A0	DSJ very fine	S2513	S2528	S2523	
	Super Fine XS	SiC	DSJ Super fine	S4713			
Long Belts (flexible e.g. 50x2000mm)	Ultra Fine	SiC	SiC Ultra fine	S4601			
	Extra Coarse A	A0	Superflex Extra Coarse	S2116			
	Coarse A	A0	Superflex Coarse	S2216		S2223	
	Medium A	A0	Superflex Medium	S2316		S2323	
	Fine A	A0	Superflex Fine	S2415		S2423	
File Belts (small e.g. 12x457mm)	Very Fine A	A0	Superflex Very Fine	S2516		S2523	
	Super Fine S	SiC					
	Coarse A	A0	DSX Coarse	S2218	S2238	S2253	RapidPrep XF
	Medium A	A0	DSX medium	S2318	S2338	S2353	
Fine A	A0	DSX fine	S2418	S2438	S2453		
Very Fine A	A0	DSX very fine	S2518	S2538	S2553		
Heavy Duty Belts/Discs	Coarse	A0		S2215			
	Medium	A0		S2315			

GRIT SIZE																SHAPE AVAILABILITY						
280	240	220	180	150	120	100	80	60	50	40	36	30	24	20	16	PRODUCT CODE	BELTS W <sub>≤</sub> 400mm	BELTS W <sub>&gt;</sub> 400mm	DISCS	STD SHEETS	OTHER SHEETS	ROLLS
	X65		X80													U243						
	X65		X80		X100											U234						
	X65		X80		X100											U254						
	X65		X80		X100		X200									U264						
	X65				X100											U366	BWD					
	X65															U336						
	X70		X90		X110											U464						
	X70		X90		X110		X210									U466						
	X65				X100		X200									U936						

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FLAT STOCK: AVAILABLE IN HANDPADS, ROLLS AND SHEETS.

Cap code	F2302/ F2316 (Med A HD)	F2300	F2401	F2520/ F2529	F2504	F2510	F4300	F4804/ F4807/ F4605	F2801/ F2829	F0001
Grade	Extra Cut	Medium	Fine	Very Fine	Very Fine (long life)	Gen. Purpose Clean & Scour	Medium (SiC)	Ultra Fine	Micro Fine	White cleaning
Mineral	Aluminium Oxide	Aluminium Oxide	Aluminium Oxide	Aluminium Oxide	Aluminium Oxide	Alumina Silicate	Silicon Carbide	Silicon Carbide	Micro Fine	None
Target substrate	Stainless Steel	Metals & ceramics	Wood & plastics	General Purpose	General Purpose	Metals & Plastics	Stainless Steel	General Purpose	Precious Metals, Varnished Wood, Car Body Work	All Substrates

# INTRODUCTION TO BEARTEX NON-WOVEN PRODUCTS

BearTex consists of a backing in “non-woven” nylon fibers evenly impregnated with abrasive granules through the binding action of synthetic resins. This structure forms a “three-dimensional” abrasive material. Since this product was created as a finishing tool for operations where no material need be removed, it is particularly suitable for buffing-up purposes or to reduce the roughness of a surface: BearTex begins to act when other abrasive tools have terminated their work. In all those situations where a buffing, cleaning or finishing operation is required, the BearTex product is decidedly a must.

## UNDERSTANDING THE NON-WOVEN CAP CODE SYSTEM

RapidFinish Convolute  
S/C (Silicon Carbide)  
Fine

C

4

4

15

MARKETING PRODUCT NAME	MARKETING CAP CODE FAMILY	TYPE OF MATERIAL	GRAIN	GRADE	INTERNAL DIFFERENTIATION
Bear-Tex	Flat Stock	F	0- No Grain	0- No Grit	Consecutive numbers used for internal differentiation
Rapid Blend-Unified	Utilized/Unified	U	1- A/O White	1- Extra Coarse	
Rapid Strip	Rapid Strip	R	2- A/O Brown	2- Coarse	
Rapid Prep-Surface Conditioning	SCM Surface Conditioning Material / Blending	S	4- S/C	3- Med.	
Rapid Finish-Convolute	Convolute	C	5- Garnet	4- Fine	
Floor pads	Floor Maintenance	JF	7- Diamond	5- Very Fine	
			9- Ceramic	6- Ultra Fine	
				7- Super Fine	
				8- Micro Fine	

USED WET OR DRY, BEARTEX PRODUCTS OFFER THE FOLLOWING ADVANTAGES:

- A predictably consistent, uniform finish
- Minimum smearing and discolouration of the work-piece as heat is dissipated through the open mesh of the product
- Increased productivity through savings in time
- Ability to automate operations
- Reduced operator training
- Less maintenance required
- Greater safety than other methods
- Conformability to irregular surfaces

These advantages make BearTex products an excellent alternative to bristle brushes, set-up wheels, greaseless compounds, and steel wool. Operators quickly learn the techniques of using BearTex products to produce eye catching finishes.

BEARTEX PRODUCTS CAN BE USED ON A WIDE VARIETY OF SURFACES

- Aluminium
- Chromium
- Tantalum
- Fibreglass
- Brass
- Stainless Steel
- Ceramics
- Wood
- Copper
- Zinc
- Glass
- Plywood
- Nickel
- Titanium
- Plastic

APPLICATIONS INCLUDE

- Deburring
- Blending
- Defuzzing plywood
- Decorative finishes
- Cleaning
- Polishing
- Dulling laminates
- Scrubbing
- Highlighting
- Imparting satin
- Scouring
- Deflashing plastics
- Removing raised wood fibres

### NEW BEARTEX NON-WOVEN WEBSITE

Scan the QR code or visit website using the web address below.

[www.nortonbeartex.com](http://www.nortonbeartex.com)



WEBSITE LINK

# APPLICATION / GRIT RECOMMENDATION

COARSE (GRINDING)						FINE (FINISHING)					
Grit	24	30	36	40	50	60	80	100	120	150-180	180-320 +
Cutting-off & grinding wheels	Cutting-off										
	Heavy Duty Grinding										
Coated abrasives	Stock Removal										
		Blending & Refining									
			Deburring								
				Surface Preparation & Cleaning							
						Finishing					
BearTex						Coarse		Medium	Very Fine		

## ABRASIVE TYPES

**BEARTEX** products are manufactured utilising either silicon carbide or aluminium oxide abrasive grain. These are the same high quality abrasives used in Norton’s world famous coated abrasive products.

**SILICON CARBIDE** is a hard, sharp, brittle abrasive grain which tends to break down under pressure. Therefore silicon carbide items are sharper, tend to cut faster and produce finer scratch patterns on most surfaces.

**ALUMINIUM OXIDE** is a tough, blocky abrasive which does not tend to break down. Aluminium oxide is more durable than silicon carbide and tends to last longer, produce less discolouration on aluminium, and be more aggressive on certain applications such as hardened steel parts.

### GRIT SIZE

The ‘grit’ refers to the particle size of the abrasive grain that is impregnated into the nylon web during manufacture.

Use of large particles result in a Beartex product that acts more aggressively and produces a coarse surface finish. Small size particles result in a Beartex product that produces fine surface finishes.

### DENSITY

The ‘density’ refers to the number of fibres which have been compressed onto the nylon web material. Most Beartex products are made in a single density designed to meet the requirements of the intended application. However, several wheel items offer two densities to provide a broader range of finishing results.

Under identical conditions, ‘hard’ density wheels cut faster, last longer and produce finer finishes than medium density wheels. ‘medium’ density wheels offer greater conformability and less tendency to load the workface.

### BOND TYPES

Waterproof resins are used throughout the manufacture of Beartex web material to bond the nylon fibres together and to firmly anchor the abrasive grains throughout the web.

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# 087-112 DISCS FOR ANGLE GRINDERS



88 Fibre Discs  
92 Flap Discs

100 Semi Flexible Discs  
102 Blending

109 Stripping & Cleaning  
111 Finishing & Polishing

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