

3M Science.
Applied to Life.™

The Welder's Choice

CUBITRON II



Speedglas

DISTRIBUTOR LOGO



We deliver Welding Excellence.



Our passion is working towards your needs, to understand your challenges and to supply you with the finest materials from trusted manufacturers. Through our partnership with 3M we are committed to offer you the absolute highest quality abrasives and personal protection equipment for every step of your welding processes, from metal cutting & preparation to weld grinding and refinement. All these solutions are specifically designed to increase your efficiency, productivity and safety levels every day.

As your welding supplies partner we serve you with an end to end comprehensive product portfolio, advanced training as well as technical support. This ensures your business has the support to deliver welding excellence for your customers and to thrive in today's competitive market.



CUBITRON II



Speedglas

PELTOR™

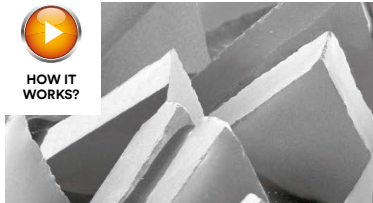
Grinding and cutting reinvented.

Prepared for perfection.

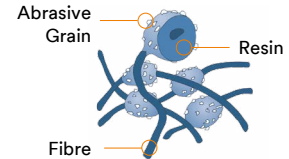
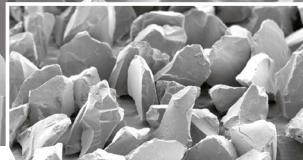
CUBITRON™ II



HOW IT WORKS?



Conventional Grain



Cubitron II abrasive is Precision-Shaped Grain and slices cleaner and faster



- ✓ Cooler operation
- ✓ Clean cut
- ✓ Lasts much longer

Conventional ceramic grain is irregular and "ploughs" through the metal



- ✗ Heat build-up
- ✗ Slower cutting
- ✗ Shorter life

3M's proprietary Precision-Shaped Grain technology acts like a cutting tool, slicing through metal like a knife. The material is continuously self-sharpening, as points break off during use to expose new sharp edges staying cooler and lasting many times longer than conventional grain types.

- » Cuts faster – helps improve productivity and throughput
- » Lasts longer – helps save money
- » Easier to use – good for workers, good for business
- » Reduced rejects – produces fewer heat

There's one family of abrasives that's trusted to deliver repeatable results and fine finishes, and it's Scotch-Brite™. With roots in the past and an eye on the future, Scotch-Brite™ Industrial Abrasives are dedicated to uncompromising quality – just like you. Powered by 3M nonwoven technology, these discs, wheels, belts and hand pads excel in applications like deburring, finishing, cleaning and surface preparation. The secret? The spring-like three-dimensional conformable web that continually expose fresh abrasive to the work surface leaving behind a consistent finish while maintaining the geometry of the workpiece.

- » Consistent repeatable finishes
- » Less rework time and rejects
- » Resist loading
- » Fewer production steps
- » Save time and labor costs
- » Higher productivity & efficiency



INTERESTED IN TECHNOLOGY?



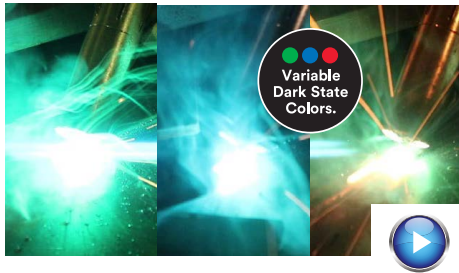
INTERESTED IN TECHNOLOGY?

Farewell to compromises.



Adjust your welding helmet, not yourself

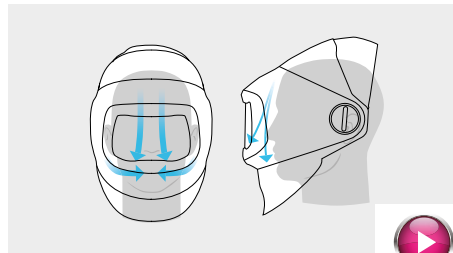
Imagine a better way for you to control how you see and feel when welding. Based on extensive input from welders doing heavy-duty, high-amperage welding and grinding, 3M™ Speedglas™ is continuously improving and incorporates unique technologies and design to be as versatile as you are.



Natural Color Technology

AMAZING TECHNOLOGY

- » More realistic color in the light state.
- » Variable color in the dark state.
- » Warm, standard, or cool color preference.
- » Excellent Visibility of the welding spot.



Adjustable air flow

CHECK IT OUT!

- » New duct system, for easy direction of airflow
- » Greater control over personalized settings
- » Balance the airflow's cooling effect while minimizing flows that might dry out nose or eyes.

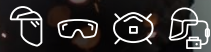
 **Speedglas**®



Comfortable and protective

EXPLORE THE TECHNOLOGY

- » Powerful lighting from the new helmet-mounted Task Light (optional)
- » The highest respiratory safety classifications for powered air respirators (TH3) and supplied air regulators (B3).
- » Protection against radiation, sparks and spatter with the new, high-coverage helmet design and six different coverage configurations using helmet accessories.
- » Adjusts to get you closer to the weld.



Metal Cutting

During cutting, consistency, reliability and safety are required to bring the workpiece to the required shape. You need the right equipment and tools to perform this task with precision, accuracy – ideally with least amount of effort.

Use the Cubitron™ II Precision Shaped Grain Technology developed by 3M to increase your productivity with the fast sustained cut rates and even long life.

Equip your workers with 3M Personal Protective Equipment, protecting them from eye, hearing and respiratory hazards – all designed to provide piece of mind at work.



Recommended Product* to use:

Cubitron™ II Cut Off Wheels.



SEE PRODUCT
IN ACTION

Cubitron™ II Cut & Grind Wheels.



SEE PRODUCT
IN ACTION

CUBITRON II



Useful benefits

- ▶ Ease of use
- ▶ Save time
- ▶ Precision, accuracy of cut
- ▶ Less heat
- ▶ Less noise



Fast
cut



Increased
productivity

*For more information about available sizes, diameters and widths, please refer to pages 26–27.





Rust, Scale and Paint Removal



Achieving optimal surface cleaning before welding is a very important process as the rust, mill scale, and coatings hinder the flow of the liquid weld, often causing undesirable appearance and weak joints.

By understanding your major process pain points, we offer you comprehensive solutions using Scotch-Brite™ and Cubitron™ II Technologies designed to help you achieve increased throughput, reduced cleaning time, quality consistency, repeatable finishes and overall lower manufacturing costs.

Improve productivity and safety levels by always using adequate Personal Protective Equipment designed by 3M to ensure optimum comfort and 100% compliance.

Recommended Product* to use:

Scotch-Brite™ Clean & Strip Discs & Wheels.



SEE PRODUCT IN ACTION

Cubitron™ II 967A Flap Discs.
Cubitron™ II 969F Flap Discs.

CUBITRON II



SEE PRODUCT IN ACTION



Useful benefits

- ▶ Ease of use
- ▶ Save time
- ▶ Quality of finish



Increased productivity



Increased safety

*For more information about available sizes, diameters and widths, please refer to pages 26–27.



Weld Preparation



In this heavy metal removal operation, speed and precision are critical factors, and thus you need durable discs and wheels that can remove material fast avoiding reworks and fatigue.

3M™ precision-shaped ceramic grain used in Cubitron™ II wheels and discs, offer increased cut rates. Consistent grinding is performed with less heat and smooth running, improving the ergonomics and safety. Get the maximum of productivity and efficiency on leveling welds, beveling edges, removing gates and much more.

When grinding, protection from eye, hearing and respiratory hazards becomes a priority. 3M™ has the right Personal Protective Equipment that protects them adequately, while minimizing lost operational time.

Recommended Products* to use:

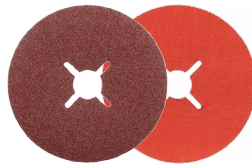
Cubitron™ II
Grinding Wheels.

Cubitron™ II 982C Fibre Discs.
Cubitron™ II 987C Fibre Discs.

CUBITRON II



SEE PRODUCT IN ACTION



SEE PRODUCT IN ACTION



Useful benefits

- ▶ Ease of use
- ▶ Save time
- ▶ Speed
- ▶ Less noise
- ▶ Quality of finish



Fast
cut



Increased
productivity



Increased
safety

*For more information about available sizes, diameters and widths, please refer to pages 26–27.



Welding



Health hazards associated with any welding process include exposures to toxic gas fumes, noise, heat, burns, and to UV & IR radiation. Ensuring high levels of safety is vital when undertaking any welding activity, therefore be always alert, trained and well informed. It is our first priority to provide you knowledge around safety and work closely with 3M Safety Experts to continuously keep you updated. 3M™ Speedglas™ and 3M™ Adflo technologies are combined together in a welding helmet designed for heavy duty welding and grinding applications. Several unique features improve comfort and provide optimal safety levels, empowering you to increase performance and work more efficiently. Control your weld puddle with a view that appears lighter, brighter and has positive influence on the protection of your face and eyes from heat, spatter and radiation.

Enjoy the versatility and focus on your welding set-up, welding technique, and inspection of just-completed welds.

Recommended Product* to use:

3M™ Speedglas™ G5-01. 



SEE PRODUCT IN ACTION



Useful benefits

- ▶ Reliability
- ▶ Comfort
- ▶ Protection
- ▶ View



Increased productivity



Increased safety



Weld Removal



Leveling the weld and removing the excess metal requires abrasives that have high metal removal rates and last for long high standards of safety. Our fast cutting 3M™ Cubitron™ II fibre discs can help maximize your production speed, while our innovative flap discs can help get a smooth finish without overcutting. No matter the job, there is a 3M weld grinding solution for you.

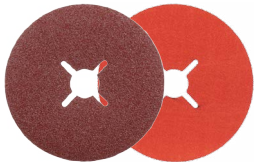
- 3M's precision-shaped ceramic grain enables faster and sustained cut rates.
- Increased throughput by reducing grinding time.
- Repeatable finishes and quality.
- Overall reduction in abrasives and manufacturing costs.

Recommended Products* to use:

Cubitron™ II 982C Fibre Discs.
Cubitron™ II 987C Fibre Discs.

Cubitron™ II 967A Flap Discs.
Cubitron™ II 969F Flap Discs.

CUBITRON™ II



SEE PRODUCT IN ACTION



SEE PRODUCT IN ACTION



Useful benefits

- ▶ Ease of use
- ▶ Save time
- ▶ Speed
- ▶ Less noise



Fast
cut



Long
life



Increased
safety

*For more information about available sizes, diameters and widths, please refer to pages 26–27.



Weld Cleaning & Discoloration Removal



Discoloration, tinting or “Rainbow” effect is a twofold problem as it influences attractive appearance but most importantly it reduces the corrosion resistance of the finished product. 3M Bristle brushes, Clean and Strip discs, and Unitized Wheels are specially designed to quickly and safely remove the oxide layer, leaving exceptional smooth finishes.

Select the appropriate type and conversion through our comprehensive offering of solutions under the Scotch-Brite™ branded portfolio, and get the job done with high quality standards and consistent performance.

Recommended Products* to use:

Scotch-Brite™ Clean & Strip Discs & Wheels.



Scotch-Brite™ Bristle Brushes & Wheels



Useful benefits

- ▶ Ease of use
- ▶ Save time
- ▶ Speed
- ▶ Less noise



Increased productivity



Increased safety

*For more information about available sizes, diameters and widths, please refer to pages 26–27.



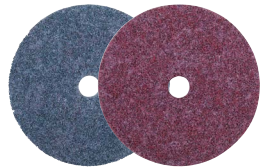
Surface Refinement



With the growing popularity of unpainted metal finishes – especially stainless steel – getting the right finish is more important than ever. That's where our innovative technology and design go to work for you. 3M leads the way in metal finishing with Scotch-Brite™ industrial abrasives. Our innovative metal finishing products strike the right balance of strength and finesse, helping you achieve repeatable surface finishes in blending, graining, flat finishing and aesthetic finishing. Explore the 3M abrasive solutions that we offer you and benefit from the versatility, ease of use and performance for producing a wide range of surface finish effects.

Recommended Products* to use:

Scotch-Brite™ Light
Grinding & Blending Discs.



SEE PRODUCT IN ACTION

Cubitron™ II 967A Flap Discs.
Cubitron™ II 969F Flap Discs.



SEE PRODUCT IN ACTION



Useful benefits

- ▶ Ease of use
- ▶ Save time
- ▶ Speed
- ▶ Less noise



Long
life



Increased
productivity

*For more information about available sizes, diameters and widths, please refer to pages 26–27.



3M
Speedglas

3M Aclite

3M Aclite

P.S.H.

Make the right choice.



We specialize to ensure we provide you with the quality you expect and deserve. Success in every step, from first cut... to final finish, we are your welding partners, we are the 3M Welding Experts.



Do More.





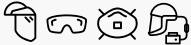













Do it faster.

Do it safer.

For more information of how 3M Abrasives and Personal Protection Equipment will help you improve every step of the process, please contact our technical and sales expertise team.



Increase productivity and efficiency with 3M Abrasives

Process	Requires	Useful benefits	3M™ Abrasive Product Solutions	Benefits	Hazards and solutions
 <p>Metal Cutting</p>	<p>Cutting of tube, pipes, sheet and angled metal</p>	<ul style="list-style-type: none"> › Ease of use › Save time › Precision, accuracy of cut › Less heat › Less noise  	<p>3M™ Cubitron™ II Cut-Off Wheel</p> 	<p>Contains 3M™ Precision Shaped Grain:</p> <p>Fast cutting:</p> <ul style="list-style-type: none"> › Long life › Cooler cutting 	<ul style="list-style-type: none"> › Airborne particles › Dust › Flying particles › Sparks › Wheel breakage – cuts 
 <p>Rust, Scale and Paint Removal</p>	<p>Removal of rust, paint and light mill scale from the metal</p>	<ul style="list-style-type: none"> › Ease of use › Save time › Quality of finish  	<p>Scotch-Brite™ XT Pro Clean & Strip™</p> <p>Contains silicone carbide mineral</p> 	<ul style="list-style-type: none"> › Low sparking › Long life › Maintains workpiece shape › No chemicals required › Consistant finish 	<ul style="list-style-type: none"> › Airborne particles › Flying particles › Sparks › Noise 
 <p>Weld Preparation</p>	<p>Grinding of metal including chamfering, bevelling, weld, mill scale or surface imperfection removal. Large weld removal and all heavy duty metal grinding applications</p>	<ul style="list-style-type: none"> › Ease of use › Save time › Speed › Less noise › Quality of finish   	<p>3M™ Cubitron™ II Fibre Disc</p> <p>For mild steel: 982C 36+, 60+</p> <p>For stainless steel: 987C 36+, 60+</p> 	<p>Contains 3M™ Precision Shaped Grain:</p> <p>Fast cutting:</p> <ul style="list-style-type: none"> › Long life › Cooler cutting › Reduces grinding time – exposure to vibration › Increase productivity 	<ul style="list-style-type: none"> › Hand-arm vibration (HAV) › Airborne particles › Sparks › Flying particles › Noise › Wheel breakage – cuts 
			<p>3M™ Flap Disc 967A or 969F 40+, 60+</p> 		
			<p>3M™ Cubitron™ II Depressed Centre Grinding Wheel</p> 		



Guide to icons



Fast cut



Long life



Increased productivity



Increased safety

Process	Requires	Useful benefits	3M™ Abrasive Product Solutions	Benefits	Hazards and solutions
<p>Weld Removal</p>	<p>Grinding of metal including chamfering and beveling. Cleanly and carefully removing the excess weld metal leaving a nice leveled surface.</p>	<ul style="list-style-type: none"> » Ease of use » Productivity & Speed » Less heat up & noise » Quality of finish 	<p>3M™ Cubitron™ II Fibre Disc</p> <p>For mild steel: 982C 36+, 60+</p> <p>For stainless steel: 987C 36+, 60+</p> <p>3M™ Flap Disc 967A or 969F 40+, 60+</p>	<p>Contains 3M™ Precision Shaped Grain:</p> <p>Fast cutting:</p> <ul style="list-style-type: none"> » Long life » High cut rates » Cooler cutting » Finer scratches » More control » Less vibration 	<ul style="list-style-type: none"> » Airborne particles » Flying debris » Sparks » Dust » Noise » Vibration
<p>Weld Cleaning & Discoloration Removal</p>	<p>Quick, safe and easy removal of black spots, discoloration and spatters. Achieve a nice looking clean surface on and around the weld.</p>	<ul style="list-style-type: none"> » Ease of use » Save time » Quality of finish 	<p>Scotch-Brite™ XT Clean & Strip™ XT Pro and XT Pro Extra Cut</p> <p>Scotch-Brite™ Bristle Brushes, Discs and Wheels</p>	<p>Contains silicone carbide mineral:</p> <p>Low sparking:</p> <ul style="list-style-type: none"> » Safer operation. No flying parts » Long life with consistent performance » Conformability in contoured areas 	<ul style="list-style-type: none"> » Airborne particles » Dust » Flying particles » Noise
<p>Surface Refinement</p>	<p>Refine heavy scratches, improve aesthetic finish, blend, prepare for painting.</p>	<ul style="list-style-type: none"> » Performance » Durability » Consistent finishes » Smooth operation 	<p>Scotch-Brite™ Light Grinding & Blending Discs</p> <p>Cubitron™ II 967A Flap Discs. Cubitron™ II 969F Flap Discs.</p>	<p>Contains 3M™ Ceramic Grain</p> <ul style="list-style-type: none"> » High cut-rate » Durable construction resists wear <p>Contains 3M™ Precision Shaped Grain for:</p> <ul style="list-style-type: none"> » Reduced grinding time » Less exposure to vibration » Increased productivity 	<ul style="list-style-type: none"> » Hand-arm vibration (HAV) » Airborne particles » Flying particles » Noise » Sparks

Enhance your safety levels by selecting the right Personal Protection Equipment



Increased safety



Head & face protection



Airborne particles



Eye hazards



Noise



Hand-arm vibration

Head & face protection



3M™ Headgear Combination, G500V5F11H51-GU (includes hearing protection)



3M™ Versaflo™ Faceshield with Flame Resistant Poly Faceseal M-207 with 3M™ Adlfo™



3M™ E-A-R™ Flexible Fit Earplug HA 328-1000



3M™ PELTOR™ Electronic Earplug, EEP-100



3M™ PELTOR™ Earmuff X4



3M™ PELTOR™ X4 and Wireless Communication Accessory

Eye protection



3M™ SecureFit™ 400X Series Safety Glasses



3M™ SecureFit™ 3700 Series Overspectacles



3M™ Goggle Gear 500 Series Goggle



3M™ Aura™ Disposable Respirators 9300+ Series



3M™ Secure Click™ Half Mask Reusable Respirator HF 800 Series



3M™ Adlfo™ High-Altitude Powered Air Respirator (to be combined with 3M headtops)

Respiratory protection

3M™ Speedglas™ Heavy-Duty Welding Helmet G5-01



Applications

- ▶ Heavy Duty Welding
- ▶ Most welding processes: MMA (Stick), MIG/MAG, TIG, Low amp Tig
- ▶ Cutting
- ▶ Grinding

Easy to access and use controls

- ▶ While wearing the helmet and your gloves

Protection

- ▶ Against radiation, sparks and spatter
- ▶ Highest respiratory safety classifications for powered and supplied air respirators (TH3, B3)

Natural Color Technology



- ▶ 3M™ Speedglas™ Welding Filter G5-01TW
- Adjustable dark shades 5 (cut) and 8-13
- Tack Welding Mode



- ▶ 3M™ Speedglas™ Welding Filter G5-01VC
- Adjustable dark shades 5 (cut) and 8 to 14
- Variable colour technology

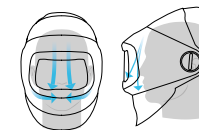
Comfort

- ▶ New headband design
- ▶ Adjustment options
- ▶ Extra-large back pad



Variable color technology

- ▶ To provide even better view and control of your weld puddle
- ▶ Choose between natural, cool or warm tones for your dark state



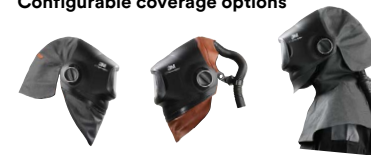
Adjustable air flow

- ▶ New duct system allows individual adjustment of airflow

Task light

- ▶ Optional helmet mounted task light

Configurable coverage options



Abrasives Product Availability Dimensions, Types and Grids

3M™ Cubitron™ II Cut Off Wheels



Diameter	Thickness (Shape)
115mm	1.0mm (T41) / 1.6mm (T41) / 2.5mm (T42)
125mm	1.0mm (T41) / 1.6mm (T41) / 2.0mm (T41) / 2.5mm (T42) / 3.0mm (T42)
150mm	2.5mm (T42)
180mm	2.0mm (T41) / 2.5mm (T42)
230mm	2.0mm (T41) / 2.5mm (T41 & T42) / 3.0mm (T41)



3M™ Cubitron™ II Cut & Grind Wheels



Diameter	Thickness (Shape)
115mm	4.2mm (T27)
125mm	4.2mm (T27)
150mm	4.2mm (T27)
180mm	4.2mm (T27)
230mm	4.2mm (T27)



3M™ Cubitron™ II Grinding Wheels



Diameter	Thickness (Shape)
115mm	7.0mm (T27)
125mm	7.0mm (T27)
150mm	7.0mm (T27)
180mm	7.0mm (T27)
230mm	7.0mm (T27)



3M™ Cubitron™ II Flexible Grinding Wheels

Diameter	Grid	Widths (Shape)
115mm	36+ / 80+	3.0mm (T27)
125mm	36+ / 80+	3.0mm (T27)
180mm	36+	3.0mm (T27)

3M™ Cubitron™ II 982C & 987C Fibre Discs

Diameter	Grid	Format
115mm	36+ / 60+ / 80+	Slotted
125mm	36+ / 60+ / 80+	Slotted
180mm	36+ / 60+ / 80+	Slotted

3M™ Cubitron™ II 967A Flap Discs

Diameter	Grid	Shape
115mm	G40 / G60 / G80	Flat / Conical
125mm	G40 / G60 / G80	Flat / Conical
180mm	G40 / G60 / G80	Flat / Conical

3M™ Cubitron™ II 969F Flap Discs

Diameter	Grid	Shape
115mm	40+ / 60+ / 80+	Flat / Conical
125mm	40+ / 60+ / 80+	Flat / Conical
150mm	40+ / 60+ / 80+	Flat / Conical
180mm	40+ / 60+ / 80+	Flat / Conical



3M™ Scotch-Brite™ Bristle Wheels & Brushes



Type	Format	Dimensions	Type	Grids
BB-ZB	Wheels to be fitted on a bench motor or Die Grinders	152mmx27mm	Type A	P50 (Green)
				P80 (Yellow)
			Type C	P80 (Yellow)
				P120 (White)
				P220 (Red)
Type	Format	Dimensions	Type	Grids
BB-ZS	Brushes to be fitted on Die Grinders	50mmx6mm shaft	Type C	P80 (Yellow)
				P120 (White)
		50mmx6mm shaft		P220 (Brown)
				P80 (Yellow)
				P120 (White)
				P220 (Brown)



3M™ Scotch-Brite™ Clean and Strip XT PRO

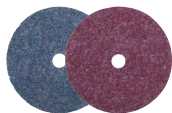
Type	Format	Dimensions & Grid
XO-DC	Plain disc with hole in the middle	100mmx13mm S XCRS
		150mmx13mm S XCRS
		200mmx13mm S XCRS
XO-RD	Rigid fibre backing for angle grinder no BUP	115mmx22mm S XCRS
		125mmx22mm S XCRS
		125mmxM14 S XCRS
		178mmx22mm S XCRS
XO-ZS	Spindle mounted single disc	100mmx13mmx6mm S XCRS
		150mmx13mmx8mm S XCRS
		75mmx13mmx6mm S XCRS

3M™ Scotch-Brite™ Bristle Discs



Type	Format	Dimensions	Grids
BD-ZB	Disc to be fitted on angle grinder	115mmxM14	P50 (Green)
			P80 (Yellow)
			P120 (White)

3M™ Scotch-Brite™ Discs



Type	Dimensions	Grid
SC-DH	115mm / 125mm / 178mm	A VFN
		A MED
		A CRS
GB-DH	115mm / 125mm / 178mm	HD A CRS
		SD A CRS

3M™ Scotch-Brite™ Clean and Strip XT PRO EXTRA CUT



Type	Format	Dimensions & Grid
XC-DC	Plain disc with hole in the middle	100mmx13mm A XCRS
		150mmx13mm A XCRS
		200mmx13mm A XCRS
XC-RD	Rigid fibre backing for angle grinder no BUP	115mmx22mm A XCRS
		125mmx22mm A XCRS
		125mmxM14 A XCRS
		178mmx22mm A XCRS
XC-ZS	Spindle mounted single disc	100mmx13mmx6mm A XCRS
		150mmx13mmx8mm A XCRS
		75mmx13mmx6mm A XCRS

**3M
WELDING
EXPERT**



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