



TYROLIT - BASE MATERIALS

Product range overview

The TYROLIT Group

TYROLIT is one of the world's leading manufacturers of grinding and dressing tools and is also a system provider for the construction industry.

Since 1919, our innovative tools have been making an important contribution to technological development in numerous industries. TYROLIT offers tailored grinding solutions for a varied range of applications and a comprehensive assortment of standard tools for customers all over the world.

The family-owned company based in Schwaz, Austria, combines the dynamic strengths of the Swarovski Group with over a hundred years of commercial and technological experience.



Bibielle S.p.A.: The Italian-based company was founded in 1965 and currently has 90 employees. Bibielle is well known for its high-quality three-dimensional abrasive materials for Surface Conditioning Wheels and Belts, Unitized and Convolute Wheels as well as Rough Cleaning Wheels. In 2020 Bibielle became a company of the TYROLIT Group.

Facts & figures



80,000+
products



29
production locations



4,500+
employees worldwide



37
sales locations



500+
international patents

Sales companies in Argentina, Australia, Austria, Belgium, Brazil, Canada, China, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, India, Indonesia, Italy, Netherlands, Norway, Poland, Portugal, Russia, Spain, South Africa, South Korea, Sweden, Switzerland, Thailand, UAE, UK and the US. Sales partners in 65 other countries.

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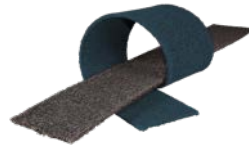
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RA CHART (on Stainless Steel AISI 304)

The following table shows how the coarseness of abrasive products effect the surface results of the workpiece. The lower the RA value the finer the surface result is.

Rough cleaning

Rough Cleaning wheels	Ra (µm)
GR rough cleaning	2,30
GR rough cleaning (blue)	2,10



Light deburring – Finishing – Blending

Surface Conditioning	Ra (µm)
HD COARSE	1,60
HD MEDIUM	1,10
A COARSE	1,00
A MEDIUM	0,60
A FINE	0,50
A VERY FINE	0,40
C ULTRA FINE	0,30



Light deburring – Finishing – Polishing

UW - Unitised	Ra (µm)
8 A COARSE	0,70
8 A MEDIUM	0,40
6 C FINE	0,30
2 A MEDIUM	0,25
3 C FINE	0,20
2 C FINE	0,15



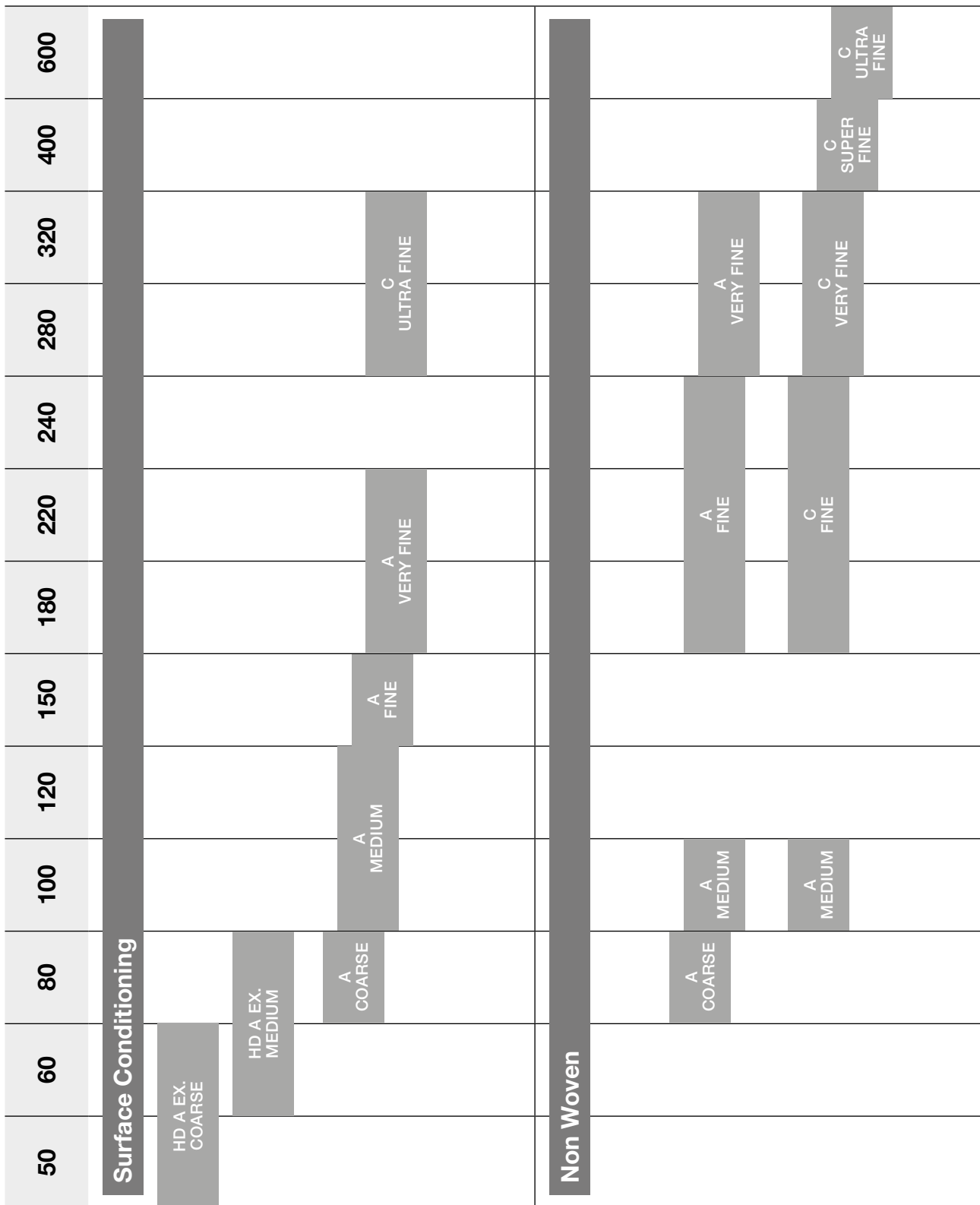
Deburring – Finishing – Polishing

CW - Convolute	Ra (µm)
CW MMF	
2 C COARSE (Satin Finishing / Blending)	0,24
2 C MEDIUM (Satin Finishing / Blending)	0,20
5 A MEDIUM (Finishing / Blending)	0,20
CW DB (Light Deburring / Finishing)	
8 A MEDIUM	0,22
9 C FINE H (HARD)	0,20
9 C FINE	0,19
8 C FINE H (HARD)	0,18
8 C FINE	0,17
7 C FINE	0,15



Correspondence Grit Chart

This chart shows how TYROLIT SCM and non-woven products correspond to FEPA grain sizes.



A = Aluminium Oxide

C = Silicon Carbide

HD = Heavy Duty

Surface Conditioning Material (SCM)

TYROLIT base materials combine the highest levels of quality in surface finishing with an unmatched lifetime.

On the following pages you will find a comprehensive assortment on base materials for the creation of high quality SCM products.

TYROLIT Surface Conditioning Materials are available in a wide range of grain sizes and are perfectly suitable for a variety of different applications on:

- + Steel
- + Stainless steel
- + Nonferrous metals
- + Plastic
- + Titanium
- + Composites

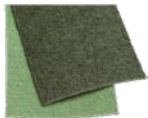

SCM main benefits:

- + Remove surface imperfections
- + Generate the required finish in one operation
- + Produce clean, smooth, burr-free surfaces
- + Refine grind lines in fewer steps than coated abrasives
- + Provide a unique combination of aggressiveness, finish and life
- + Give a consistent, repeatable finish
- + Replace traditionally used products such as coated abrasives and wire brushes



SCM jumbo rolls low stretch [LS] for belts & flap discs







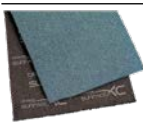
- + Specifically designed to work in a belt form and to prevent elongation during application
- + Exceptional durability due to special design

	Type no.	Size	Grade	Colour	PU	Can be converted into	
	34226574	300mm x 20.5m	A Coarse	Brown	1	Belts	Recommended for belt sanders with contact wheel larger than Ø50mm
	34529585	1000mm x 20.5m	A Coarse	Brown	1		
	34226728	300mm x 20.5m	A Medium	Red	1	Flap discs	
	34529587	1000mm x 20.5m	A Medium	Red	1		
	34226729	300mm x 20.5m	A Fine	Green	1		
	34529586	1000mm x 20.5m	A Fine	Green	1		
	34226730	300mm x 20.5m	A Very Fine	Blue	1		
	34529589	1000mm x 20.5m	A Very Fine	Blue	1		
	34226771	300mm x 20.5m	C Extrem Fine	Grey	1		
	34529588	1000mm x 20.5m	C Extrem Fine	Grey	1		



SCM jumbo rolls extra cushion [XC] for belts & discs

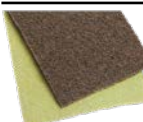


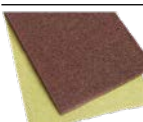
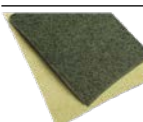
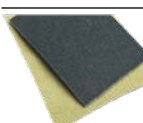
- + Highest levels of finishing, flexibility and durability
- + Especially suited for aluminium and lighter finishing on stainless steel
- + Very open structure

	Type no.	Size	Grade	Colour	PU	Can be converted into
	34529600	300mm x 20.5m	A Coarse	Brown	1	Belts  Recommended for belt sanders with contact wheel larger than Ø50mm
	34529604	1000mm x 20.5m	A Coarse	Brown	1	
	34529602	300mm x 20.5m	A Medium	Red	1	Discs 
	34529606	1000mm x 20.5m	A Medium	Red	1	
	34529601	300mm x 20.5m	A Fine	Green	1	Q-Discs 
	34529605	1000mm x 20.5m	A Fine	Green	1	
	34529603	300mm x 20.5m	A Very Fine	Blue	1	
	34529607	1000mm x 20.5m	A Very Fine	Blue	1	



SCM jumbo rolls extra flexed [FLEX] for small & narrow belts




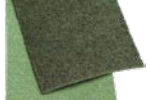
- + Flexible thanks to special structure
- + Material prevents delamination

	Type no.	Size	Grade	Colour	PU	Can be converted into
	34226773	300mm x 20.5m	A Coarse	Brown	1	Belts (narrow and small diameter)  
	34529608	1000mm x 20.5m	A Coarse	Brown	1	
	34226774	300mm x 20.5m	A Medium	Red	1	Recommended for belt sanders with contact wheel smaller than Ø50mm
	34529610	1000mm x 20.5m	A Medium	Red	1	
	34226775	300mm x 20.5m	A Fine	Green	1	
	34529609	1000mm x 20.5m	A Fine	Green	1	
	34226776	300mm x 20.5m	A Very Fine	Blue	1	
	34529611	1000mm x 20.5m	A Very Fine	Blue	1	

★★★ PREMIUM **SCM jumbo rolls scrim back [SB] for discs**

+ Velcro backing for easy mounting

+ Very robust design for high pressure applications with enhanced edge stability

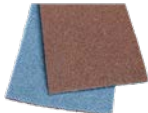




	Type no.	Size	Grade	Colour	PU	Can be converted into
	34529591	300mm x 20.5m	A Coarse	Brown	1	Discs
	34529594	1000mm x 20.5m	A Coarse	Brown	1	
	34529592	300mm x 20.5m	A Medium	Red	1	Q-Discs
	34529596	1000mm x 20.5m	A Medium	Red	1	
	34529595	1000mm x 20.5m	A Fine	Green	1	
	34529593	300mm x 20.5m	A Very Fine	Blue	1	
	34529597	1000mm x 20.5m	A Very Fine	Blue	1	

★★★ PREMIUM **SCM jumbo rolls heavy duty [HD] for belts and discs**

+ High density for demanding applications

+ Great level of stability

+ High aggressiveness

	Type no.	Size	Grade	Colour	PU	Can be converted into
	34529578	300mm x 20.5m	A Ex.Coarse	Brown	1	Belts
	34529579	1000mm x 20.5m	A Ex.Coarse	Brown	1	Q-Discs 
	34535704	300mm x 20.5m	A Ex.Medium	Red	1	Belts 
	34529581	1000mm x 20.5m	A Ex.Medium	Red	1	Q-Discs 

Unitised and Convolute Materials





TYROLIT unitised and convolute materials are produced with high quality raw materials and the latest technology to achieve highest tear resistance, longest lifetime and consistent perfect results.

The **main applications** for these products are deburring, blending and finishing on a variety of materials such as all kind of metals, plastic and composites.



UW unitised sheets for wheels and discs



- + For removing rust, burrs and scratches as well as for fading, glazing, finishing and grinding welding seams
- + Cool grinding and low clogging of the wheel

Type no.	Size [mm]	Grade	Colour	PU	Can be converted into	
	34529863	610x510x3.2	2 C Fine	Grey	1	Wheels
	34535342	610x510x3.2	2 A Medium	Light brown	1	
	34529864	610x510x3.2	3 C Fine	Grey	1	
	34529866	610x510x3.2	6 A Medium	Light brown	1	UW with fiber backing
	34529867	610x510x3.2	6 C Fine	Grey	1	
	34529868	610x510x3.2	8 A Coarse	Brown	1	
34529870	610x510x6.4	2 C Fine	Grey	1	Q-Discs	
34529869	610x510x6.4	2 A Medium	Light brown	1		
34529871	610x510x6.4	3 C Fine	Grey	1		
34529873	610x510x6.4	6 A Medium	Light brown	1		
34529874	610x510x6.4	6 C Fine	Grey	1		
34529875	610x510x6.4	8 A Coarse	Brown	1		
34529878	610x510x12.7	2 C Fine	Grey	1		
34529877	610x510x12.7	2 A Medium	Light brown	1		
34529879	610x510x12.7	3 C Fine	Grey	1		
34529880	610x510x12.7	6 A Medium	Light brown	1		
34529881	610x510x12.7	6 C Fine	Grey	1		
34529882	610x510x12.7	8 A Coarse	Brown	1		
34529883	610x510x25.4	2 C Fine	Grey	1		
34535343	610x510x25.4	2 A Medium	Light brown	1		
34529884	610x510x25.4	3 C Fine	Grey	1		
34529885	610x510x25.4	6 A Medium	Light brown	1		
34529886	610x510x25.4	6 C Fine	Grey	1		
34529887	610x510x25.4	8 A Coarse	Brown	1		



CW DB convolute deburring logs for wheels



- + For reducing surface roughness, removing paint residues, smoothing surfaces, cleaning and removing welding seams and for deburring edges
- + Very fine finish
- + Outstanding lifetime

	Type no.	Size [mm]	Grade	Colour	PU	Can be converted into
	34529785	152x560x25.4	7 C Fine	Grey	1	Wheels
	34529789	152x560x25.4	8 A Medium	Grey	1	
	34529790	152x560x25.4	8 C Fine	Grey	1	
	34529792	152x560x25.4	8 C Fine Hard	Grey	1	
	34529799	152x560x25.4	9 C Fine	Grey	1	
	34529802	152x560x25.4	9 C Fine Hard	Grey	1	
	34529786	203x560x76.2	7 C Fine	Grey	1	
	34529788	203x560x76.2	8 A Medium	Grey	1	
	34529791	203x560x76.2	8 C Fine	Grey	1	
	34529793	203x560x76.2	8 C Fine Hard	Grey	1	
	34529800	203x560x76.2	9 C Fine	Grey	1	
	34529803	203x560x76.2	9 C Fine Hard	Grey	1	



CW MMF convolute multi metal finishing logs for wheels

- + For various finishing on all metal surfaces
- + Very soft structure

	Type no.	Size [mm]	Grade	Colour	PU	Can be converted into
	34529808	152x560x25.4	2 C Coarse	Black	1	Wheels
	34529810	152x560x25.4	2 C Medium	Black	1	
	34529805	152x560x25.4	5 A Medium	Red	1	
	34535496	203x560x76.2	2 C Coarse	Black	1	
	34529811	203x560x76.2	2 C Medium	Black	1	
	34529806	203x560x76.2	5 A Medium	Red	1	




Rough Cleaning Materials

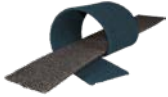
TYROLIT rough cleaning base materials offer the best base for the creation of rough cleaning wheels. The open structure prevents clogging and makes the material ideal for numerous applications.

The products made out of these materials are ideal for cleaning welds, removing corrosion, rust, scale and paints. They do not produce an excessive stock removal thus leaving a clean manageable surface to work on.


GR rough cleaning sheet material for wheels

- + Flexible nylon fibres treated with aggressive abrasive grain
- + Minimal heat generation thanks to open structure
- + Design prevents clogging and loading

Type no.	Size [mm]	Grade	Colour	PU	Can be converted into
34529889	255x13X1720	C COARSE	Black	1	Discs
34529890	255x13X1720	A EX. COARSE	Blue	1	 GR with fiber backing  Q-Discs 



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