



# **Cerabond System**

A new level of performance

English

# The Tyrolit Group

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

Since 1919, our innovative tools have made an important contribution to the technological development in many industries. Tyrolit offers tailored grinding solutions for various applications, as well as a comprehensive assortment of standard tools for customers all over the world.

Headquartered in Schwaz (Austria), the family-owned business combines the strengths of being a part of the dynamic Swarovski Group with a century's worth of individual corporate and technological experience.



Tyrolit headquarters in Schwaz (Austria)

## Facts & Figures



**80,000+**  
products



**31**  
production sites



**4,400+**  
employees worldwide



**36**  
sales locations



**500+**  
worldwide patents

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

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# Piktograms



Angle grinder



Belt grinder



Stationary cutting machines



Steel



Stainless Steel



Casting materials



Cast Steel

# Reach your goal faster with Cerabond products from TYROLIT

Our self-sharpening ceramic abrasive is among the best that the technology currently has to offer. However, the best grain in the world is only of limited use if the quality of the bond is not as high.

This is why TYROLIT developed the Cerabond system! Using this technology, we have succeeded in achieving an optimal combination of ceramic grain and bond structure. Thus it is possible to keep the abrasiveness and the lifetime of the cut-off wheel at the highest level. The Cerabond system prevents premature break-out of the grain and thus guarantees the full grinding power of the individual grains.

## + Shorter work processes

Working times are substantially reduced through improved abrasiveness.

## + Longer lifetime

The unique bond system prevents the premature break-out of the grain and leads to a long product lifetime.

## + Enhanced abrasiveness

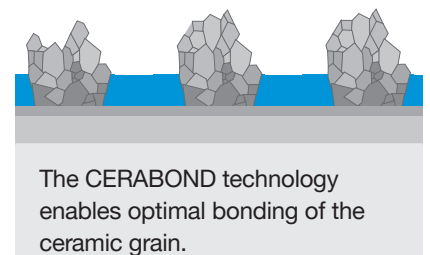
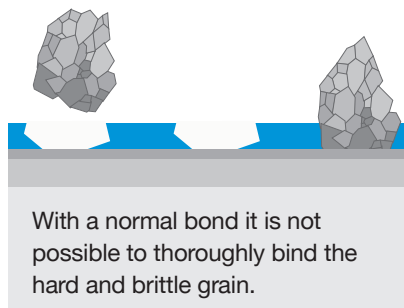
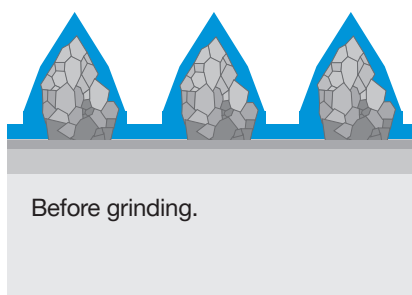
The self-sharpening ceramic grain in combination with our Cerabond bonding system offers maximum stock removal on the workpiece.

## Stock removal rate

Discs at STANDARD level with good performance

Discs at PREMIUM level with very good performance

**CERABOND SYSTEM**



**CeraBond**  
TECHNOLOGY

# CERABOND X Cut-off wheels

for steel and stainless steel

- + Shortest cutting times due to the structure of the ceramic grain used

- + Extremely sharp cut-off wheel enables the user to work very comfortably and with little effort



- + Very long lifetime on hard and demanding materials

## Application:




- + For machining different steel and stainless steel grades
- + For cutting very hard, challenging workpieces and solid materials

## We recommend:

- + 1.0 to 1.6 mm for fastest cutting and minimum burr formation
- + Best results when used on powerful angle grinders

## CERABOND X Cut-off wheels for steel and stainless steel



	Shape	Type no.	Dimension	Specification	PU	
		41	34597624	115 × 1 × 22.23	CA60Q-BFP	15
			34597625	115 × 1.3 × 22.23	CA60Q-BFP	15
			34597626	115 × 1.6 × 22.23	CA46Q-BFP	15
			34597627	125 × 1 × 22.23	CA60Q-BFP	15
			34597628	125 × 1.3 × 22.23	CA60Q-BFP	15
			34597629	125 × 1.6 × 22.23	CA46Q-BFP	15
		42	34606299	125 × 1.6 × 22.23	CA46Q-BFP	15

## CERABOND X Cut-off wheels

for rail cutting

- + Shortest cutting times and comfortable working with low effort



- + Cleanest surfaces without any discolouration reduce rework and working times

- + Very long service life and stability

- + Best results even with humidity, cold and temperature fluctuations

**Application:**



- + For cutting rails
- + Developed for use on manual cut-off machines with electric or petrol engines

**We recommend:**

- + Use only on well-maintained and powerful machines (> 5 kW)
- + Developed for use on manual cut-off machines with electric or petrol engines

## CERABOND X Cut-off wheels for rail cutting



	Shape	Type no.	Dimension	Specification	PU
	 41	34617164	300 × 3,5 × 20	CA24R-BFPRAIL	10
		34617165	350 × 3,8 × 20	CA24R-BFPRAIL	10
		34617166	400 × 4,3 × 20	CA24R-BFPRAIL	10
		34617167	300 × 3,5 × 25,4	CA24R-BFPRAIL	10
		34617168	350 × 3,8 × 25,4	CA24R-BFPRAIL	10
		34617169	400 × 4,3 × 25,4	CA24R-BFPRAIL	10

# CERABOND X Cut-off wheels

for cast iron

+ Excellent lifetime and stability

+ Cleanest surfaces without any discolouration reduce rework and working times



+ Shortest cutting times and comfortable working with low effort

+ Highest aggressiveness over the entire lifetime

**Application:**

- + For machining various cast materials, such as lamellar graphite cast iron and spheroidal cast iron
- + For cutting very hard, demanding workpieces and large cross-sections

**We recommend:**

- + Best results when used on powerful angle grinders

**CERABOND X Cut-off wheels**  
for cast iron



	Shape		Type no.	Dimension	Specification	PU
		42	34605362	178 x 3,0 x 22,23	CA30S-BFP	25
			34605364	178 x 3,5 x 22,23	CA30S-BFP	25
			34605365	230 x 3,0 x 22,23	CA30S-BFP	25
			34605366	230 x 3,5 x 22,23	CA30S-BFP	25

# CERABOND X rough grinding wheels

for steel and stainless steel

- + Fastest grinding thanks to the structure of the ceramic grain used

- + Consistent abrasiveness thanks to the combination of the new bond system and ceramic grain



- + Maximum lifetime and therefore fewer wheel changes for the operator

## Application:



- + Ideal for grinding hard steel and stainless steel surfaces, for example edge grinding, surface grinding or removing welding seams

## We recommend:

- + 4 mm thickness for peripheral grinding
- + 7 mm thickness for rough grinding
- + Best results when used on powerful angle grinders

## CERABOND X rough grinding wheels for steel and stainless steel



	Shape	Type no.	Dimension	Specification	PU	
		27	34401827	115 × 4,0 × 22,23	CA24Q-BFP	5
			34401830	115 × 7,0 × 22,23	CA24Q-BFP	5
			34401841	125 × 4,0 × 22,23	CA24Q-BFP	5
			34387126	125 × 7,0 × 22,23	CA24Q-BFP	5
			34401843	150 × 4,0 × 22,23	CA24Q-BFP	5
			34401847	150 × 7,0 × 22,23	CA24Q-BFP	5
			34401849	178 × 4,0 × 22,23	CA24Q-BFP	5
			34401850	178 × 7,0 × 22,23	CA24Q-BFP	5
			34401852	230 × 4,0 × 22,23	CA24Q-BFP	5
			34387127	230 × 7,0 × 22,23	CA24Q-BFP	5



# CERABOND X COMFORT rough grinding wheels

for steel and stainless steel

+ Fast grinding due to the structure of the ceramic grain used

+ Consistent aggressiveness thanks to combination of new bond system with ceramic grain



+ Less pressure required thanks to excellent cutting ability

+ Maximum working comfort over the entire lifetime

**Application:**

+ For demanding applications on various steel and stainless steel qualities, e.g. edge grinding, surface grinding or removal of welding seams



**We recommend:**

+ Developed for increased working comfort and applications with low grinding pressure

## CERABOND X COMFORT rough grinding wheels

for steel and stainless steel



	Shape		Type no.	Dimension	Specification	PU
		27	34645085	178 x 7 x 22,23	CA24P-BFP	10
			34611111	230 x 7 x 22,23	CA24P-BFP	10

# CERABOND X rough grinding wheels

for cast iron

+ Fastest grinding due to the structure of the ceramic grain used

+ Consistent aggressiveness thanks to combination of new bond system with ceramic grain



+ Extensive lifetime and best results without edge chipping

+ Developed for high pressure in the most difficult conditions

**Application:**



+ For the most demanding applications on cast iron with lamellar graphite (GJL) and spheroidal cast iron (GJS), for surface grinding as well as for deburring and smoothing work

**We recommend:**

+ Optimised for high-frequency and compressed air-driven turbine angle grinders

## CERABOND X rough grinding wheels for cast iron



	Shape	Type no.	Dimension	Specification	PU
		27	34650874	178 x 7 x 22,23	CA24S-BFP 5
			34650875	230 x 7 x 22,23	CA24S-BFP 5

# CERABOND X COMFORT rough grinding wheels

for cast steel

+ Fast grinding due to the structure of the ceramic grain used

+ Consistent aggressiveness thanks to combination of new bond system with ceramic grain



+ High working comfort thanks to excellent cutting ability over the entire lifetime

+ Edge chipping is reduced to a minimum

**Application:**

+ For demanding applications on cast steel, for surface grinding as well as for deburring and smoothing work



**We recommend:**

+ Optimised for high-frequency and compressed air-driven turbine angle grinders

## CERABOND X COMFORT rough grinding wheels

for cast steel



	Shape	Type no.	Dimension	Specification	PU	
		27	34650876	178 × 7 × 22,23	CA24P-BFP	5
			34650932	230 × 7 × 22,23	CA24P-BFP	5

# CERABOND X flap discs

for steel and stainless steel

- + Thanks to its ceramic grit and unique bond system, it offers a 30% higher stock removal rate compared to its predecessors.

- + Unique bond system prevents premature grain break-out and permits maximum lifetime



- + Trimmable core in the 28N shape means that the entire disc can be used

## Application:

- + For demanding grinding applications on different steel and stainless steel grades
- + Best suited for surface grinding, edge grinding and removing welding seams.



## We recommend:

- + Grit size 40/60 for high stock removal
- + Grit size 80 for fine work
- + Best results when used on powerful angle grinders

## CERABOND X flap discs





for steel and stainless steel



	Shape	Type no.	Dimension	Specification	PU	
		27A	34576446	100 × 16	CA40+Q-B	5
		34576448	100 × 16	CA60+Q-B	5	
		34576449	100 × 16	CA80Q-B	5	
		34576529	115 × 22,23	CA40+Q-B	5	
		34576530	115 × 22,23	CA60+Q-B	5	
		34576551	115 × 22,23	CA80Q-B	5	
		34577061	125 × 22,23	CA40+Q-B	5	
		34577063	125 × 22,23	CA60+Q-B	5	
		34577064	125 × 22,23	CA80Q-B	5	

## CERABOND X flap discs for steel and stainless steel



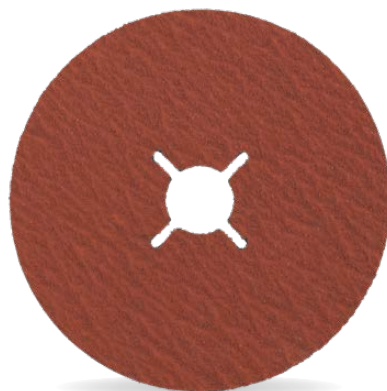
	Shape		Type no.	Dimension	Specification	PU
		27A	34577069	150 × 22,23	CA40+Q-B	5
			34577070	150 × 22,23	CA60+Q-B	5
			34577071	150 × 22,23	CA80Q-B	5
			34577077	178 × 22,23	CA40+Q-B	5
			34577078	178 × 22,23	CA60+Q-B	5
			34577079	178 × 22,23	CA80Q-B	5
		28A	34576526	100 × 16	CA40+Q-B	5
			34576527	100 × 16	CA60+Q-B	5
			34576528	100 × 16	CA60+Q-B	5
			34576552	115 × 22,23	CA40+Q-B	5
			34576553	115 × 22,23	CA60+Q-B	5
			34576554	115 × 22,23	CA80Q-B	5
			34577065	125 × 22,23	CA40+Q-B	5
			34577066	125 × 22,23	CA60+Q-B	5
			34577067	125 × 22,23	CA80Q-B	5
			34577073	150 × 22,23	CA40+Q-B	5
			34577074	150 × 22,23	CA60+Q-B	5
			34577075	150 × 22,23	CA80Q-B	5
			34577080	178 × 22,23	CA40+Q-B	5
			34577081	178 × 22,23	CA60+Q-B	5
			34577082	178 × 22,23	CA80Q-B	5
		28N	34577423	115 × 22,23	CA40+Q-B	5
			34577424	115 × 22,23	CA60+Q-B	5
			34577425	115 × 22,23	CA80Q-B	5
			34577427	125 × 22,23	CA40+Q-B	5
			34577428	125 × 22,23	CA60+Q-B	5
			34577429	125 × 22,23	CA80Q-B	5
			34577430	150 × 22,23	CA40+Q-B	5
			34577431	150 × 22,23	CA60+Q-B	5
			34577432	150 × 22,23	CA80Q-B	5
			34577433	178 × 22,23	CA40+Q-B	5
			34577434	178 × 22,23	CA60+Q-B	5
			34577435	178 × 22,23	CA80Q-B	5

## CERABOND X fibre discs

for steel and stainless steel

- + Extremely fast stock removal thanks to a unique grain structure

- + Consistent abrasiveness



- + Cooling layer for maximum lifetime

### Application:



- + For coarse grinding work as well as for removing rust and burrs from hard steel and stainless steel surfaces

### We recommend:

- + Grit size 24/36/40/60 for maximum stock removal
- + Grit size 80/120 for fine grinding





### CERABOND X fibre discs for steel and stainless steel



Shape		Type no.	Dimension	Grain	Max. RPM	PU	
		DISC V	34486168	115 × 22mm	24	13300	25
		34486170	115 × 22mm	36	13300	25	
		34486193	115 × 22mm	40	13300	25	
		34486194	115 × 22mm	60	13300	25	
		34486195	115 × 22mm	80	13300	25	
		34486196	115 × 22mm	120	13300	25	
		34486197	125 × 22mm	24	12300	25	
		34486199	125 × 22mm	36	12300	25	
		34486201	125 × 22mm	40	12300	25	
		34486202	125 × 22mm	60	12300	25	
		34486204	125 × 22mm	80	12300	25	
		34486205	125 × 22mm	120	12300	25	
		34486206	180 × 22mm	24	8600	25	

## CERABOND X fibre discs for steel and stainless steel



	Shape		Type no.	Dimension	Grain	Max. RPM	PU
		DISC V	34486207	180 × 22mm	36	8600	25
			34486209	180 × 22mm	40	8600	25
			34486211	180 × 22mm	60	8600	25
			34486214	180 × 22mm	80	8600	25
			34486217	180 × 22mm	120	8600	25
		DISC V	34480494	115 × 22mm	24	13300	50
			34480447	115 × 22mm	36	13300	50
			34480448	115 × 22mm	40	13300	50
			34480449	115 × 22mm	60	13300	50
			34480450	115 × 22mm	80	13300	50
			34480471	115 × 22mm	120	13300	50
			34480472	125 × 22mm	24	12300	50
			34480473	125 × 22mm	36	12300	50
			34480474	125 × 22mm	40	12300	50
			34480475	125 × 22mm	60	12300	50
			34480476	125 × 22mm	80	12300	50
			34480477	125 × 22mm	120	12300	50
			34480478	180 × 22mm	24	8600	50
			34480479	180 × 22mm	36	8600	50
			34480480	180 × 22mm	40	8600	50
			34480491	180 × 22mm	60	8600	50
			34480492	180 × 22mm	80	8600	50
			34480493	180 × 22mm	120	8600	50

# CERABOND X natural fibre discs

for steel and stainless steel

+ Extremely fast stock removal thanks to a unique grain structure

+ Consistent aggressiveness and durability





+ Cooling layer for maximum lifetime

## Application:

+ For coarse grinding work as well as for removing rust and burrs from hard steel and stainless steel surfaces

## CERABOND X natural fibre discs for steel and stainless steel



	Shape	Type no.	Dimension	Grain	Max. RPM	PU	
		DISC N	34617406	115 × 22	36	13300	10
			34617421	125 × 22	36	12250	10
			34617422	180 × 22	36	8600	10



# CERABOND X belts

for steel and stainless steel

- + Highest possible stock removal thanks to the use of ceramic grain

- + Coolant layer for very cool grinding



- + Self-sharpening grain for constantly good surface result combined with reduced operator workload

## Application:



- + For grinding regular and hard steel and stainless steel using belt grinders

## We recommend:

- + Grit size 24/36/40 for maximum stock removal
- + Grit size 60/80 for a perfect surface finish

## CERABOND X belts for steel and stainless steel



	Shape	Type no.	Dimension	Grain	Connection	PU	
		Belt	34572498	75 × 2000	24	JTS	10
		34571573	75 × 2000	36	JTS	10	
		34572499	75 × 2000	40	JTS	10	
		34572500	75 × 2000	50	JTS	10	
		34572511	75 × 2000	60	JTS	10	
		34572512	75 × 2000	80	JTS	10	
		34572517	150 × 2000	24	JTS	10	
		34572520	150 × 2000	36	JTS	10	
		34572532	150 × 2000	40	JTS	10	
		34572533	150 × 2000	50	JTS	10	
		34572534	150 × 2000	60	JTS	10	
		34572535	150 × 2000	80	JTS	10	









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