

KLINGSPOR cutting-off wheel and grinding disc colour coding system

Metal universal: Grey	Steel: Black	Stainless steel: Blue	Castings: Red	Aluminium: Silver	Stone/concrete: Green

Quality classes

Kronenflex® cutting-off wheels and grinding discs come in three performance classes with six colour codes for a quick overview of the most important material applications.

Product group	EXTRA	SUPRA	SPECIAL
Performance class	Products for universal implementation, offering a particularly attractive price / performance ratio.	Optimized products for different applications. Excellent service life and cutting performance.	High performance products for special applications. Highest service life and cutting performance in the respective material application area.

Label and cover sheet

The label includes all of the important information on the product, manufacturer and information on the proper use of the grinding tool

Metal ring

Provides information on the production period of the disc

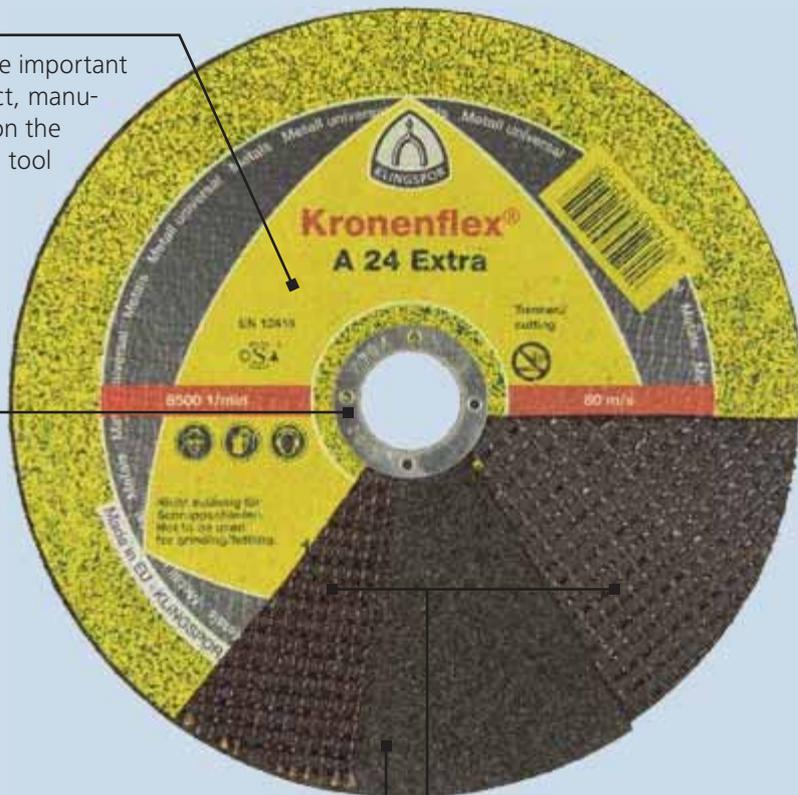
Mixture

The grit:

Today all grit types are only produced synthetically. Only grit produced synthetically can ensure continuously high wear and cutting disc quality.

Resins and fillers:

Additional, important components for cutting and grinding discs are resins, (in liquid and dry form), and fillers. These components are key in determining the disc properties, such as stability, stock removal rate, shear strength and can be adjusted to meet the needs of the specific application.

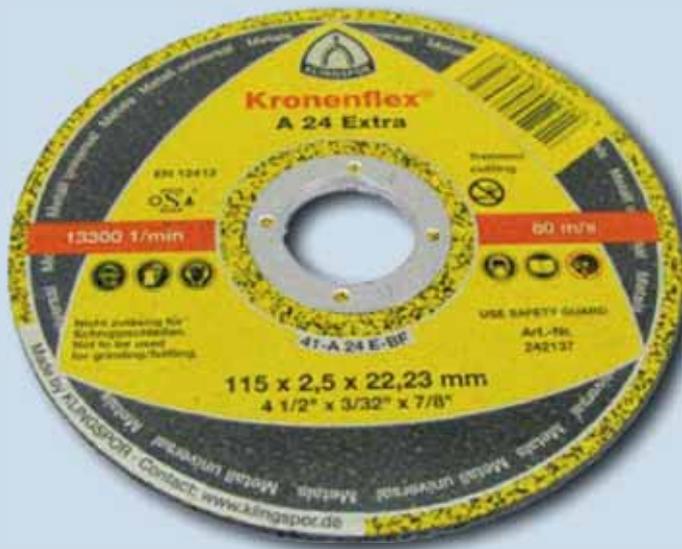


Glass fibre

Glass fibre is a reinforcing layer to ensure stability and increases the safety of the cutting-off wheel. The number and strength of the glass fibre layers is dependent upon the disc type and application.

The higher the potential lateral load on a cutting-off disc (it is greater during free cutting than during stationary cutting), the more glass fibre that the cutting disc must contain, or the contained glass fibre must be more stable. Particularly thin material is used for thin cutting discs (0.8 mm to 1.0 mm), to, in spite of the thin discs, ensure that a large grit ratio is achieved between the layers.

Grinding discs are constructed with at least 3 glass fibre layers.



Quarter	
V 01	January-March
V 04	April-June
V 07	July-September
V 10	October-December

Safety and storage

The shelf life of cutting-off wheels and grinding discs is primarily determined by their moisture content. Cutting-off wheels and grinding discs that are subjected to increased humidity after they were manufactured lose their original service life. Proper storage ensures a consistent long service life. Cutting-off wheels and grinding discs that are subjected to water or steam are a safety risk.

The user is obligated to operate the product properly. This also applies for legal reason, also as regards the expiry date. Principally the following applies: cutting-off wheels and grinding discs may not be used past the expiry date!

Working safely...

... by being careful and recognizing risks

Please avoid the risks listed below when working with cutting-off wheels and grinding discs.

- contact with rotating abrasive discs
- abrasive disc breakage
- dust deposits and grinding dust
- vibration
- noise

... through personal protective gear

Goggles, gloves, ear muffs and dust masks must be worn. When working on hard grinding applications additional protective gear is required, such as face protection, leather aprons and safety boots.

... through protective machine covers

Protective covers and guards are supplied with the grinding machine and may not be changed or removed. When using cup grinding wheels the outer surface must be completely enclosed.

In addition, cup grinding wheels may only be used in combination with an adjustable wheel guard, to balance the wear on the disc and to keep the exposure of the disc at a minimum.

... through visual inspection and performance of checks prior to mounting

Ensure the disc RPM matches the machine RPM setting and avoid exceeding the maximum admissible operating speed.

Carefully check the cutting-off wheel and grinding disc for damage. If the cutting-off wheel or grinding disc is damaged, do not use the damaged product. Our cutting-off wheels and grinding discs are marked with the corresponding safety pictogram.

... through proper use

Ensure that the respective disc is being used properly. Avoid damage to the mounting bore or to the disc through jerks, excessive force, or falls.

Ensure that the disc is properly and securely mounted and use the proper mounting flange.

Prior to starting work the abrasive disc should run at operating speed for at least 30 seconds.

Please observe the FEPA safety regulations and the European Standard 12413.

The peripheral speed and grinding pressure are important parameters for achieving optimal cutting-off and grinding disc results.

The optimal speed

Too low

If the RPM of the machine is too low, the cutting-off wheel and grinding disc tend to “jump”, and the disc edges wear down unevenly. Particularly with thin material cross sections, such as cutting tin or wire, this causes the grit to be separated from the bond and the disc wear speed is above average.

Optimal

KLINGSPUR cutting-off wheels and grinding discs are high-performance products and were developed such that best disc performance (measured according the stock removal volume to disc wear ratio) is achieved in the range right below the maximum peripheral speed. Keep the machine running at a consistently high RPM and, if needed, select a more powerful machine.

Too high

The maximum RPM and peripheral speed is printed on the label of each disc. For your own safety, please be sure not to exceed the recommended speeds when grinding.

The proper grinding pressure

An important prerequisite for a satisfactory cutting result is the correct dose of grinding pressure.

A common mistake is made to protect the disc by reducing the grinding pressure to preserve the disc and extend the cutting life of the wheel. If this is done, the material overheats (turns blue); the cutting-off wheel becomes clogged and “burns up”.

This is why the grinding pressure should always be set such that the cutting time is as short as possible. This is particularly true for heat sensitive material with large material cross-sections.



The proper hardness

...for cutting-off wheels

Generally, the rule of thumb when selecting the proper cutting-off wheel is: the harder the material, the softer the abrasive bond. The reason: the service life of a cutting-off wheel is dependent upon if the cutting surface of the work pieces hardens or not. Overheating results in the disc “glazing” and the cutting properties are negatively affected. In this case, the hardness of the bond should be decreased and a softer cutting-off wheel should be used.

...for grinding discs

The “rule of thumb” also applies to grinding discs: the harder the material, the softer the grinding disc bond.

In addition, the application plays a decisive role.

Corner and burrs have very sharp edges and cause the grit to be separated and ripped out of the bond. We suggest the selection of a hard bond.

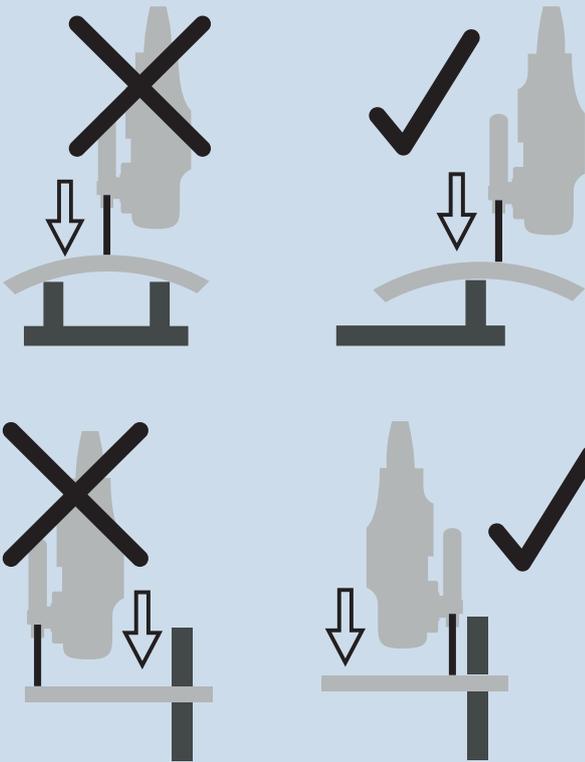
On the other hand, when working on surfaces or small weld seams a disc that is too hard would become dull and would no longer be effective. It would have a good service life, but would also have a low stock removal rate and high work costs.

A medium or soft disc bond would be best for finish grinding.

Correct angle of attack for cutting-off

Pressure may only be placed on the cutting-off wheel from a radial direction. This is the only way to avoid wobbling, buckling and disc breakage, especially when applying a high level of grinding pressure.

The work piece that is to be cut-off should be properly affixed to the workbench to ensure that the disc does not slide off to the side. In addition, we recommend that the material is affixed as close to the cutting site as possible to ensure that it does not vibrate, flutter or slip to the side.



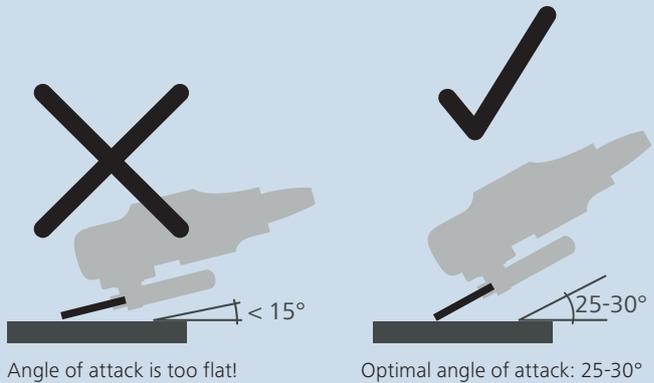
Correct angle of attack for grinding



Defective grinding disc (the angle of attack is too flat)

Grinding discs work best at an angle between 25-30° to the work piece.

This angle provides the best stock removal to disc wear ratio. If possible, always select this angle of attack.



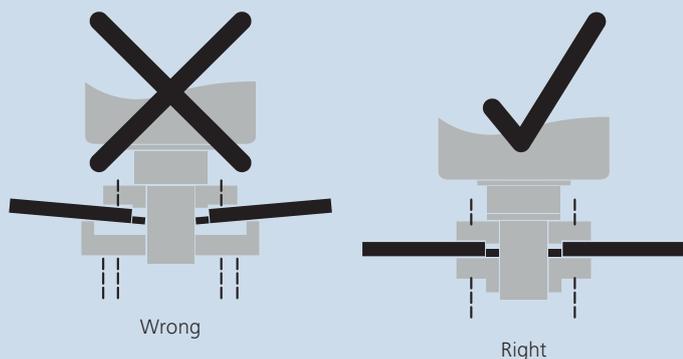
When grinding and the angle of attack is below 15° a very thin edge which levels off is formed around the circumference of the disc. Even minimal changes to the angle of attack can result in a situation in which the grinding pressure can no longer be absorbed resulting in the grinding disc slipping to the side.

Valuable grit is not used and an imbalance is created that results in having to replace the disc prematurely.

The correct mount...

... for better power transmission

Cutting-off wheels and grinding discs are mounted to the machine with a flange wheel. The flange elements are responsible for transferring power to the disc. For reasons of safety it is extremely important that defective or unusable flanges are not used.



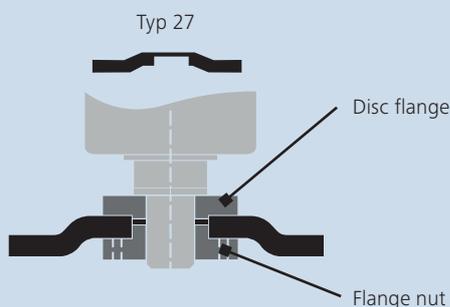
... and for more safety

The use of wheel flange FL 76 provides increased lateral stability and user control, specifically when using thin cutting-off wheels with a flat form and diameter of 180 mm and 230 mm.

The applicable regulations and standards must be complied with when using the wheel flange. The contact surface and diameter of the wheel flange must match. Using wheel flanges with diameters that do not match is prohibited.

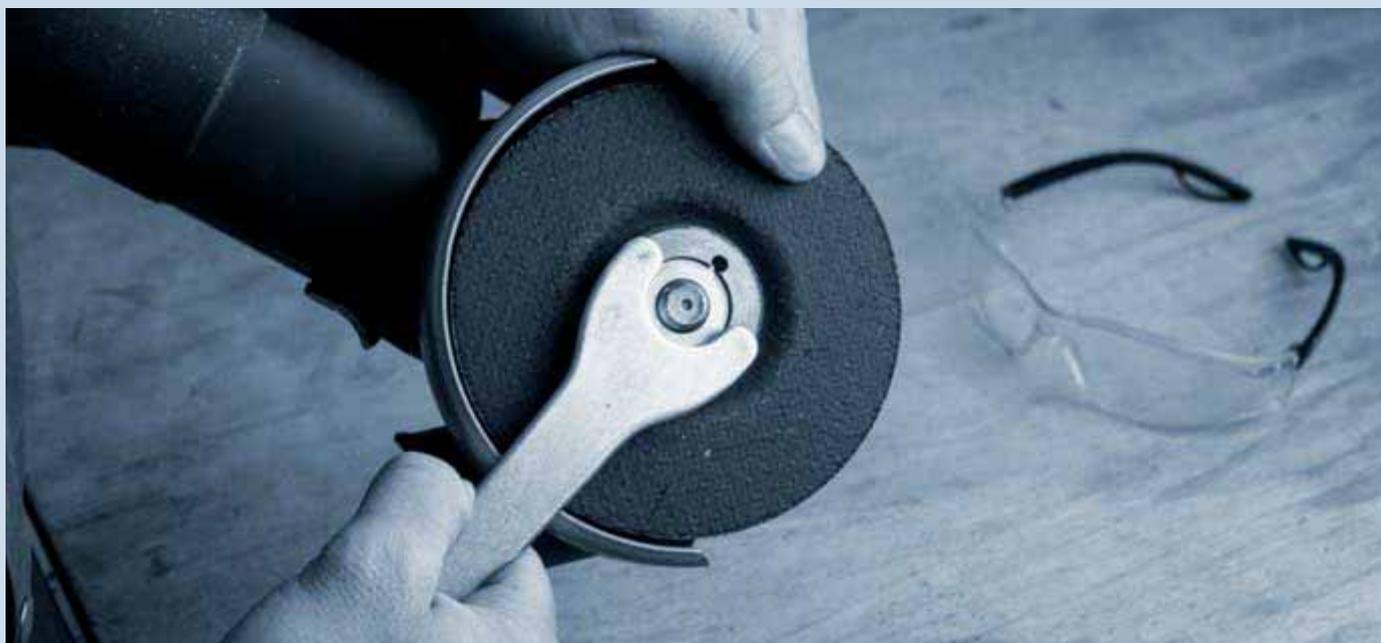
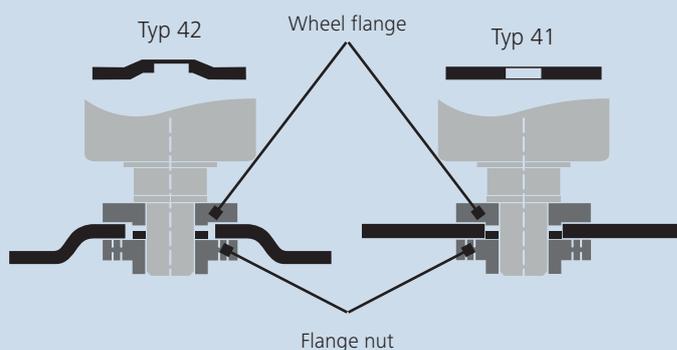
Depressed centre grinding disc

4 - 10 mm thickness



Flat and depressed centre cutting-off wheels

0.8 - 4 mm thickness



Recognize and avoid errors

	Issue	Possible cause	Solution
Cutting-off discs	Cutting surface is blue	Cutting time is too long	Increase feed speed or grinding pressure
		Drive power is too low	Use a more powerful machine
		Disc is too hard	Select a softer bond
		Material cross section is too great for the disc diameter	Work with a saw cut / work with a smaller material diameter
		Cutting disc is too wide for the material/application	Use a thinner cutting disc
	Disc wear is too high	White cutting surface: disc hardness is too low	Select a harder bond
		Peripheral speed is too low	Increase peripheral speed
		RPM decrease is too great	Reduce grinding pressure or use a more powerful machine
	Crooked cut	Work piece is not mounted properly	Mount the material closer to the cutting site
		Grinding pressure is too great	Reduce grinding pressure
		Disc width is too thin for the material/application	Increase disc width
		Disc is completely worn down	Replace disc
	Disc breakage	Machine is operated incorrectly	Avoid lateral pressure on the disc
		Incorrect wheel flange diameter	Use wheel flange with identical diameters
		Cutting-off wheel is used for grinding	Cutting-off wheels may not be used for grinding!
		Material is not properly affixed	Mount the material closer to the cutting site
	Disc periphery is frayed	Disc periphery is burned	Select a softer bond, decrease grinding pressure
		Material is not properly affixed	Mount the material closer to the cutting site
	Disc jumps	Wheel flange is dirty or worn out	Clean wheel flange or replace wheel flange
		Bearing is defective	Replace machine or replace bearing
Bore dimension and mount do not match		Use proper bore dimension or use a reducer ring	
Bore hole is broken	Wheel flanges are of different sizes	Use wheel flanges that have the same diameters	
	Machine is operated incorrectly	Reduce lateral pressure on the disc	
	Cutting-off wheel is used for grinding	Cutting-off wheels may not be used for grinding!	

Recognize and avoid errors

	Issue	Possible cause	Solution
Grinding discs	Removal rate is too low	Shiny contact surface: bond is too hard	Select a softer bond
		Grinding pressure is too low	Increase grinding pressure
		Machine performance is too low	Use a more powerful machine
	Disc is loaded/clogged	Bond is too hard	Select a softer bond
		Loading/clogging with NF-metals	Use softer bond or select a special cutting-off wheel for NF-metals
		Grinding pressure is too low	Increase grinding pressure
	Wear is too high	Grinding pressure is too high	Reduce grinding pressure
		Bond is too soft	Select a harder bond
		Machine RPM decreases too quickly.	Reduce grinding pressure
		Machine performance is too low	Use a more powerful machine
	Periphery is not rounded / breakage on the edge	Disc angle is too flat	Increase disc angle (at least 15°)
		Grinding pressure is too high	Reduce grinding pressure
	Disc wobbles	The mount is not centred	Check bore diameter and mounting diameter and adjust accordingly
		Mounting shaft is worn	Replace machine
		Mounting flange is worn, dirty or incorrect	Replace / clean mounting flange / check dimensions
		Disc wobbles	Use a new disc

Cutting-off wheels and grinding discs

The safe use of KLINGSPOR abrasives

KLINGSPOR cutting-off wheels and grinding discs are manufactured in accordance with the oSa and EN12413 standards, this ensures the highest level of user safety.



Wear safety goggles or glasses to protect the eyes



Wear safety gloves to protect hands



Wear dust mask



Observe safety instructions



Use ear muffs



Do not use for wet grinding



Kronenflex® cutting-off wheels 2.0 – 3.2 mm

KLINGSPOR Kronenflex® cutting-off wheels with disc thickness of 2.0 to 3.2 mm are known for their particularly high lateral stability.

This is particularly important for applications which require deep cuts into solid material – e.g. to cut risers/casts or large profiles. The enormous lateral forces that occur while working require particularly high cutting-off wheel stability.

In spite of its thickness, KLINGSPOR Kronenflex cutting-off wheels of the 2.0 to 3.2 mm class are known for their excellent cutting rate and long service life. These cutting-off wheels are ideal for applications that require a high degree of lateral stability.

Typical materials for these products

- Steel
- Stainless steel
- Construction steel
- NF-metals
- Cast materials
- Stone
- Plastics
- Mineral materials
- Solid materials
- Pipes
- Flat irons
- Tins

Typical applications for these products

- Foundries
- Locksmiths
- Shipyards
- Steelwork
- Plant construction
- Metal works
- Maintenance and repair work

Type	Page	Thickness [mm]	Material applications												
			Steel	Hardened steels	Tool steel	Stainless steel	High alloy steels	Corrosion and acid proof steels	Aluminium	Bronze	Cooper	Brass	Zinc die-casting	Cast iron	Stone / concrete
A 24 Extra	207	2.0 – 3.2	●	○	●	○	○	○	○	○	○	○	○	○	○
A 24 R Supra	207, 213	2.5 – 3.0	●	●	●	○	○	○	○	○	○	○	○	○	○
A 24 N Supra INOX	208	2.5 – 3.0	○	●	○	●	●	●	○	○	○	○	○	○	○
A 36 R Supra INOX	209	2.0 – 2.5	○	○	●	●	●	●	○	○	○	○	○	○	○
A 36 TZ Special INOX	209	2.0	○	○	●	●	●	●	○	○	○	○	○	○	○
A 24 R/36 Special INOX	210	2.5 – 3.0	○	○	●	●	●	●	○	○	○	○	○	○	○
A 24 TZ Special	210	2.5 – 3.0	○	○	○	●	●	●	○	○	○	○	○	○	○
A 46 N Supra	211	2.5 – 3.0	○	○	○	○	○	○	○	●	●	●	●	○	○
A 24 S Supra	211	3.0	○	○	○	○	○	○	○	○	○	○	○	○	●
C 24 Extra	212	2.5 – 3.0	○	○	○	○	○	○	○	○	○	○	○	○	○
C 24 R Supra	212	2.5 – 3.0	○	○	○	○	○	○	○	○	○	○	○	○	●

● = main application ○ = possible applications

Cutting-off wheel A 24 Extra



Advantages

Proven a million times over ■ Standard wheel with outstanding price-performance ratio ■ For universal use in metalworking ■ Fast cutting off of solid material ■ High aggressiveness and long service life

Applications:

- Metals

Bond

Medium

Quality class

Extra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
100 x 2,5 x 16		80 m/s	15,300 rpm	25	188998		
115 x 2,5 x 22,23		80 m/s	13,300 rpm	25	242137		
115 x 2,5 x 22,23		80 m/s	13,300 rpm	25	188461		
115 x 3,2 x 22,23		80 m/s	13,300 rpm	25	209014		
125 x 2,5 x 22,23		80 m/s	12,200 rpm	25	242138		
125 x 2,5 x 22,23		80 m/s	12,200 rpm	25	188463		
125 x 3,2 x 22,23		80 m/s	12,200 rpm	25	209016		
150 x 2,5 x 22,23		80 m/s	10,200 rpm	25	235375		
150 x 2,5 x 22,23		80 m/s	10,200 rpm	25	235374		
180 x 2 x 22,23		80 m/s	8,500 rpm	25	286455		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	13490		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	189000		
230 x 2 x 22,23		80 m/s	6,600 rpm	25	286456		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	13492		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	189002		

Cutting-off wheel A 24 R Supra



Advantages

Optimized combination for use on steel ■ Can be used on stainless steel ■ Good cutting properties ■ High aggressiveness and long service life

Applications:

- Steel
- Stainless steel
- Castings

Bond

Medium

Quality class

Supra

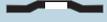


Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
100 x 2,5 x 16		80 m/s	15,300 rpm	25	13754		
115 x 2,5 x 22,23		80 m/s	13,300 rpm	25	13297		
115 x 2,5 x 22,23		80 m/s	13,300 rpm	25	13466		
125 x 2,5 x 22,23		80 m/s	12,200 rpm	25	13295		

Cutting-off wheels and grinding discs

Continuation →

Continuation of A 24 R Supra, Cutting-off wheel

Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
125 x 2,5 x 22,23		80 m/s	12,200 rpm	25	13738		
150 x 2,5 x 22,23		80 m/s	10,200 rpm	25	6667		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	13456		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	13470		
180 x 3,5 x 22,23		80 m/s	8,500 rpm	25	13474		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	13464		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	13478		

Cutting-off wheel INOX
A 24 N Supra
Advantages

Special recipe prevents smearing and clogging ■ High removal rate on stainless steel due to hardened aluminum oxide ■ Very high aggressiveness and long service life


Applications:

- Stainless steel
- Aluminium

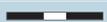
Bond

Soft

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 2,5 x 22,23		80 m/s	13,300 rpm	25	3020		
125 x 2,5 x 22,23		80 m/s	12,200 rpm	25	2951		
150 x 2,5 x 22,23		80 m/s	10,200 rpm	25	235377		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	13455		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	13469		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	13463		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	13477		

Kronenflex® cutting-off wheels 2,0 – 3,2 mm

for hand held machines



Cutting-off wheel INOX A 36 R Supra



Advantages

Excellent cutting performance ■ High aggressiveness and long service life

Applications:

- Stainless steel

Bond

Medium

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 2 x 22,23	▬	80 m/s	13,300 rpm	25	123208		
125 x 2 x 22,23	▬	80 m/s	12,200 rpm	25	126849		
150 x 2 x 22,23	▬	80 m/s	10,200 rpm	25	251752		
180 x 2,5 x 22,23	▬	80 m/s	8,500 rpm	25	123209		
230 x 2,5 x 22,23	▬	80 m/s	6,600 rpm	25	123833		

Cutting-off wheel INOX A 36 TZ Special



Advantages

Very good cutting performance, even with low grinding pressure ■ Maximum aggressiveness and long service life

Applications:

- Stainless steel
- Steel

Bond

Hard

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 2 x 22,23	▬	80 m/s	13,300 rpm	25	136549		
125 x 2 x 22,23	▬	80 m/s	12,200 rpm	25	136550		
180 x 2 x 22,23	▬	80 m/s	8,500 rpm	25	136551		
230 x 2 x 22,23	▬	80 m/s	6,600 rpm	25	136552		

Cutting-off wheels and grinding discs

Please observe: Please see Applications Guide on page 198 - 205, 206.

Cutting-off wheel INOX
A 24 TZ Special

Advantages

Optimized combination for use on stainless steel ■ Maximum aggressiveness and service life

Applications:

- Stainless steel
- Steel

Bond

Hard

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 2,5 x 22,23		80 m/s	13,300 rpm	25	136554		
125 x 2,5 x 22,23		80 m/s	12,200 rpm	25	136555		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	136558		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	136559		

Cutting-off wheel INOX
A 24 R/36 Special

Advantages

Special wheel for the nuclear industry ■ Free of iron, sulfur and chlorine ■ Maximum aggressiveness and service life

Applications:

- Stainless steel

Bond

Medium

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
100 x 2,5 x 16		80 m/s	15,300 rpm	25	60533		
115 x 2,5 x 22,23		80 m/s	13,300 rpm	25	60534		
125 x 2,5 x 22,23		80 m/s	12,200 rpm	25	2825		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	60537		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	60061		

Cutting-off wheel A 46 N Supra



Advantages

Special combination prevents smearing and clogging ■ Optimized cutting off performance on non-ferrous metals ■ Very high aggressiveness and long service life

Applications:

- Aluminium

Bond

Soft

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 2,5 x 22,23		80 m/s	13,300 rpm	25	170707		
125 x 2,5 x 22,23		80 m/s	12,200 rpm	25	170708		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	170709		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	170710		

Cutting-off wheel A 24 S Supra



Advantages

Optimized cutting off performance on cast and steel materials ■ Very high aggressiveness and service life

Applications:

- Castings
- Steel

Bond

Hard

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	13468		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	13462		

Cutting-off wheel
C 24 Extra

Advantages

Maximum ease of handling ■ Optimal for all mineral materials due to sharp, coarse SiC grit ■ High aggressiveness and long service life

Applications:

- Stone/Concrete

Bond

Medium

Quality class

Extra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
100 x 2,5 x 16		80 m/s	15,300 rpm	25	188999		
115 x 2,5 x 22,23		80 m/s	13,300 rpm	25	242143		
115 x 2,5 x 22,23		80 m/s	13,300 rpm	25	188462		
125 x 2,5 x 22,23		80 m/s	12,200 rpm	25	242144		
125 x 2,5 x 22,23		80 m/s	12,200 rpm	25	188464		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	13489		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	189001		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	13491		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	189003		

Cutting-off wheel
C 24 R Supra

Advantages

Optimal for all mineral materials due to sharp, coarse SiC grit ■ Very high aggressiveness and long service life

Applications:

- Stone/Concrete
- Castings

Bond

Medium

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 2,5 x 22,23		80 m/s	13,300 rpm	25	13465		
125 x 2,5 x 22,23		80 m/s	12,200 rpm	25	13739		
150 x 2,5 x 22,23		80 m/s	10,200 rpm	25	6668		
180 x 3 x 22,23		80 m/s	8,500 rpm	25	13453		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	13461		
230 x 3 x 22,23		80 m/s	6,600 rpm	25	13475		

Small abrasive wheel A 24 R Supra



Advantages

For universal use in hard-to-reach areas ■ Very high aggressiveness and long service life

Applications:

- Steel
- Stainless steel
- Castings

Bond

Medium

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
40 x 2 x 6		80 m/s	38,200 rpm	100	130536		
50 x 2 x 6		80 m/s	30,600 rpm	100	130537		
70 x 2 x 6		80 m/s	21,800 rpm	100	134234		
70 x 2 x 10		80 m/s	21,800 rpm	100	130540		

Fixing spindle Fixing spindle

Advantages

Secure clamping of the small abrasive wheel A 24 R Supra



Mounting	Thread diameter	Packing unit/pcs.	Cat. number		
6 mm	6 mm	1	2790		
10 mm	6 mm	1	2789		



Kronenflex® cutting-off wheels 1.6 – 2.0 mm

KLINGSPOR Kronenflex® cutting-off wheels with disc thickness of 1.6 to 2.0 mm combine excellent cutting properties with a high degree of lateral stability.

These wheels provide convincing arguments especially in day-to-day applications when working on materials with medium-strength cross sections. They are known for their short cutting time, good stability and minimal burr formation.

These advantages in connection with the wide range of applications make KLINGSPOR Kronenflex cutting wheels of the 1.6 to 2.0 mm class the highest performing universal-wheel for daily use in metalworking.

Typical materials for these products

- Steel
- Stainless steel
- Construction steel
- NF-metals
- Cast materials
- Solid materials
- Flat iron
- Tins
- Pipes

Typical applications for these products

- Locksmiths
- Shipyards
- Steelwork
- Plant construction
- Metal works
- Vehicle construction

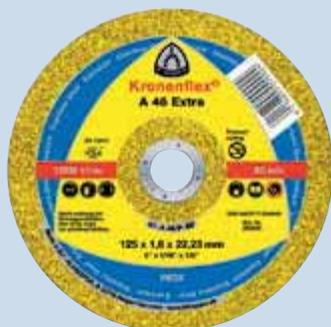
Type	Page	Thickness [mm]	Material applications										
			Steel	Hardened steels	Tool steel	Stainless steel	High-alloy steels	Corrosion and acid proof steels	Aluminium	Bronze	Cooper	Brass	Zinc die-casting
A 46 Extra	215	1.6	●	○	○	●	○	○	○	○	○	○	○
A 46 R Supra	215	1.6	●	●	○	●	○	○	○	○	○	○	○
A 46 TZ Special INOX	216	1.6 – 1.9	●	●	●	●	●	●	○	○	○	○	●
A 46 VZ Special INOX	217	2	○	○	●	●	●	●					○

● = main application ○ = possible applications

Kronenflex® cutting-off wheels 1,6 – 2,0 mm

for hand held machines

Cutting-off wheel A 46 Extra



Advantages

Minimal burr formation ■ High aggressiveness and long service life

Applications:

- Stainless steel
- Metals

Bond

Hard

Quality class

Extra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 1,6 x 22,23		80 m/s	13,300 rpm	25	263247		
125 x 1,6 x 22,23		80 m/s	12,200 rpm	25	263248		

Cutting-off wheel INOX A 46 R Supra



Advantages

Minimal burr formation ■ Very high aggressiveness and long service life

Applications:

- Stainless steel
- Steel

Bond

Hard

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
125 x 1,6 x 22,23		80 m/s	12,200 rpm	25	222954		

Cutting-off wheels and grinding discs

Cutting-off wheel INOX
A 46 TZ Special
Advantages

Minimal burr formation ■ Maximum aggressiveness and service life


Applications:

- Stainless steel
- Steel

Bond

Hard

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
100 x 1,6 x 16		80 m/s	15,300 rpm	25	194071		
115 x 1,6 x 22,23		80 m/s	13,300 rpm	25	187170		
115 x 1,6 x 22,23		80 m/s	13,300 rpm	25	235378		
125 x 1,6 x 22,23		80 m/s	12,200 rpm	25	187171		
125 x 1,6 x 22,23		80 m/s	12,200 rpm	25	235379		
150 x 1,6 x 22,23		80 m/s	10,200 rpm	25	241472		
180 x 1,6 x 22,23		80 m/s	8,500 rpm	25	221161		
230 x 1,9 x 22,23		80 m/s	6,600 rpm	25	224084		
230 x 1,9 x 22,23		80 m/s	6,600 rpm	25	265044		

Wheel flange
FL 76
Advantages

Use of the wheel flange increases lateral stability with thin cutting-off wheels having a flat form and diameters of 180 and 230 mm



Suitable for	Diameter	Packing unit/pcs.	Cat. number		
A 46 TZ	76	1	236130		

Thin cutting-off wheel & grinding disc
A 46 VZ Special

Advantages

Long service life ■ Multi-purpose: cutting off and light rough grinding with one wheel ■ Very high aggressiveness in cutting ■ No change of wheel necessary



Applications:

- Stainless steel
- NF metals
- Steel

Bond

Hard

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 2 x 22,23		80 m/s	13,300 rpm	25	298176		
125 x 2 x 22,23		80 m/s	12,200 rpm	25	298177		



Kronenflex® cutting-off wheels 0.8 – 1.0 mm

KLINGSPOR Kronenflex® cutting-off wheels with disc thickness of 0.8 to 1.0 mm are very thin cutting-off wheels with very short cutting times and minimal burr formation.

These cutting-off wheels develop their full power when working on thin-walled materials and are known for their precise, accurate and fast cuts at lowest thermal loads. Due to the cutting-off wheels' excellent cutting properties the weight of the machine itself provides suitable grinding pressure.

KLINGSPOR Kronenflex® cutting-off wheels of the 0.8 to 1.0 mm class are known for their high level of safety, efficiency and productivity.

Typical materials for these products

- Steel
- Stainless steel
- Construction steel
- NF-metals
- Cast materials
- Thin-walled profiles
- Thin tins
- Thin pipes
- Trapezoidal sheeting
- Flat irons
- Cable ducts
- Steel cables

Typical applications for these products

- Bodywork
- Maintenance and repair work
- Locksmiths
- Steelwork
- Plant construction
- Container construction
- Upkeep
- Metal works
- Vehicle construction

Type	Page	Thickness [mm]	Material applications											
			Steel	Hardened steel	Tool steel	Stainless steel	High-alloy steel	Corrosion and acid proof steels	Aluminium	Bronze	Cooper	Brass	Zinc die-casting	Cast iron
A 60 Extra	219, 220	1.0	●	○	○	●	○	○	○	○	○	○	○	○
A 60 R Supra INOX	221	1.0	●	●	●	●	○	○	○	○	○	○	○	○
A 60 TZ Special INOX	221, 222	1.0	●	●	●	●	●	●	○	○	○	○	○	○
T 60 AZ Special INOX	222	1.0	●	●	●	●	●	●	○	○	○	○	○	○
A 80 TZ Special INOX	219	0.8	●	●	●	●	●	●	●	○	○	○	○	○
A 60 N Supra	223	1.0	○	○	○	○	○	○	○	●	●	●	●	○

● = main application ○ = possible applications

Kronenflex® cutting-off wheels 0,8 – 1,0 mm

for hand held machines

Cutting-off wheel

A 80 TZ Special



Advantages

Minimal burr formation ■ Low thermal load ■ Maximum aggressiveness and service life

Applications:

- Stainless steel
- NF metals
- Steel

Bond

Hard

Quality class

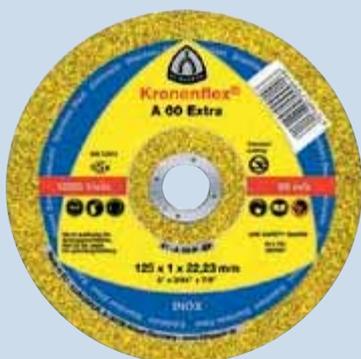
Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 0,8 x 22,23		80 m/s	13,300 rpm	25	260265		
125 x 0,8 x 22,23		80 m/s	12,200 rpm	25	260266		

Cutting-off wheel

A 60 Extra



Advantages

Minimal burr formation ■ Low thermal load ■ High aggressiveness and long service life

Applications:

- Stainless steel
- Metals

Bond

Hard

Quality class

Extra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 1 x 22,23		80 m/s	13,300 rpm	25	262936		
125 x 1 x 22,23		80 m/s	12,200 rpm	25	262937		

Cutting-off wheels and grinding discs

Please observe: Please see Applications Guide on page 198 - 205, 218.

Cutting-off wheel
A 60 Extra
Advantages

Minimal burr formation ■ Low thermal load ■ High aggressiveness and long service life ■ 10 pieces in a tin with viewing window


Applications:

- Stainless steel
- Metals

Bond

Hard

Quality class

Extra



Diameter x Width Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/Tin	Cat. number		
125 x 1 x 22,23		80 m/s	12,200 rpm	10 discs	310500		

Minimum order quantity = 5 tins

Cutting-off wheel
A 60 Extra
Advantages

Minimal burr formation ■ Low thermal load ■ High aggressiveness and long service life ■ 5 tins in a sales display


Applications:

- Stainless steel
- Metals

Bond

Hard

Quality class

Extra

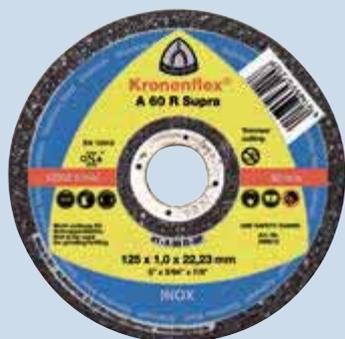


Diameter x Width Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/Display	Cat. number		
125 x 1 x 22,23		80 m/s	12,200 rpm	5 tins with 10 discs	312031		

Kronenflex® cutting-off wheels 0,8 – 1,0 mm

for hand held machines

Cutting-off wheel INOX A 60 R Supra



Advantages

Minimal burr formation ■ Low thermal load ■ Very high aggressiveness and long service life

Applications:

- Stainless steel
- Steel
- NF metals

Bond

Hard

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 1 x 22,23		80 m/s	13,300 rpm	25	249512		
125 x 1 x 22,23		80 m/s	12,200 rpm	25	249513		

Cutting-off wheel A 60 TZ Special



Advantages

Free of iron, sulfur and chlorine ■ Fast cutting ■ Minimal burr formation ■ Low thermal load ■ Maximum aggressiveness and service life

Applications:

- Stainless steel
- NF metals
- Steel

Bond

Hard

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
100 x 1 x 16		80 m/s	15,300 rpm	25	202402		
115 x 1 x 22,23		80 m/s	13,300 rpm	25	202400		
115 x 1 x 22,23		80 m/s	13,300 rpm	25	233741		
125 x 1 x 22,23		80 m/s	12,200 rpm	25	202401		
125 x 1 x 22,23		80 m/s	12,200 rpm	25	233742		

Cutting-off wheels and grinding discs

Please observe: Please see Applications Guide on page 198 - 205, 218.

Cutting-off wheel
A 60 TZ Special

Advantages

Free of iron, sulfur and chlorine ■ Fast cutting ■ Minimal burr formation ■ Low thermal load ■ Maximum aggressiveness and service life ■ 10 pieces in a tin with viewing window

Applications:

- Stainless steel
- NF metals
- Steel

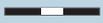
Bond

Hard

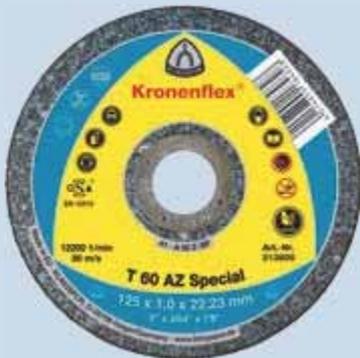
Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/Tin	Cat. number		
115 x 1 x 22,23		80 m/s	13,300 rpm	10 discs	310503		
125 x 1 x 22,23		80 m/s	12,200 rpm	10 discs	310504		

Minimum order quantity = 5 tins

Cutting-off wheel INOX
T 60 AZ Special

Advantages

Free of iron, sulfur and chlorine ■ Minimal burr formation ■ Low thermal load ■ Maximum aggressiveness and service life

Applications:

- Stainless steel
- NF metals
- Steel

Bond

Hard

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 1 x 22,23		80 m/s	13,300 rpm	25	314675		
125 x 1 x 22,23		80 m/s	12,200 rpm	25	313800		

Kronenflex® cutting-off wheels 0,8 – 1,0 mm

for hand held machines

Cutting-off wheel

A 60 N Supra

Advantages

Special combination prevents smearing and clogging ■ Minimal burr formation ■ Very high aggressiveness and long service life



Applications:

- Aluminium
- Steel

Bond

Soft

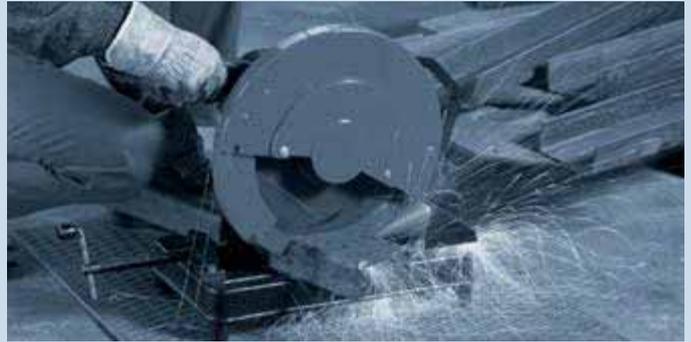
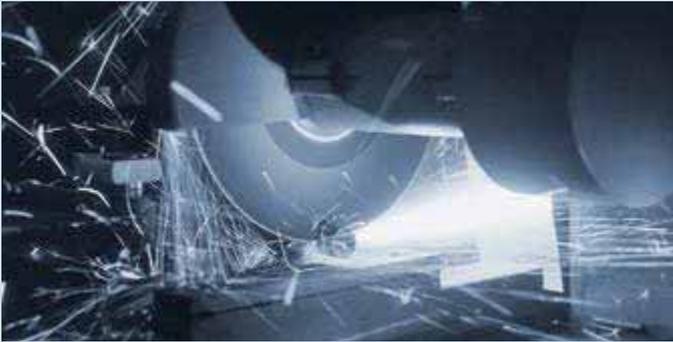
Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 1 x 22,23		80 m/s	13,300 rpm	25	264297		
125 x 1 x 22,23		80 m/s	12,200 rpm	25	264298		

Please observe: Please see Applications Guide on page 198 - 205, 218.



Kronenflex® large cutting-off wheels

KLINGSPOR Kronenflex large cutting-off wheels are high-performance, robust wheels for special uses with an outer diameter of 300 mm and more.

Its high lateral stability ensures safe operation also in connection with hard cutting applications. The optimized grits and resins are specifically created for the specific application areas. The cutting-off wheels are known for their fast cuts and low thermal material loads, as well as their long service life.

KLINGSPOR Kronenflex large cutting-off wheels uses range from bench cutting to hand-held machines, from railway construction to industrial uses on stationary machines, this product is the ideal solution if outstanding performance and a high degree of safety is what is needed.

Cutting-off wheels for different types of machines:

- Hand held machines 80m/s
- Hand held machines with a clamping device for vignole rails 100m/s
- Transportable bench chop saws < 3KW
- Stationary saws / cutters up to 5KW
- Stationary saws / cutters > 5KW

ATTENTION! Stationary cutting-off wheels may not be used with free-hand machines!

Type	Page	Thickness [mm]	Material applications														Machines			
			Steel	Hardened steels	Tool steel	Stainless steel	High-alloy steels	Corrosion and acid proof steels	Aluminium	Bronze	Cooper	Brass	Zinc die-casting	Cast iron	Stone / concrete	Asphalt	Bench chop saws	Hand held machines 80m/s	Hand held machines 100m/s	Stationary < 5KW
A 24 Extra	227	3.5	●	○	●	○	○	○						○				●		
C 24 Extra	227	3.5												○	●	○		●		
A 24 R Supra	231	3.0 – 4.5	●	●	●	○	○	○						○						●
A 24 N Supra INOX	231	3.5	○	●	●	●	●	●	○	○	○	○	○							●
A 24 R Special	228	3.5 – 4.0	●	●	●	●	●	●						○				●		
T 24 AX Special	230	3.5 – 4.0	●	●															●	
C 24 RA Supra	229	3.5 – 4.0													○	●		●		
C 24 RT Special	229	3.5													●			●		
C 24 RT/ 34 Special	228	3.5	●											○	○			●		
A 30 N Special	232	2.5 – 3.5	●	○	○	○	○	○	○	○	○	○	○	○			●			

● = main application ○ = possible applications

Products for hand held machines

These products were developed for use with hand held machines (petrol, electric, high-frequency).

Please note that it is very important that the maximum operating speed setting on the machines and the maximum operating speed setting on the products match. 80 m/s and 100 m/s machines are available on the market. KLINGSPUR large cutting-off wheels for hand held machines are certified for 80 m/s hand held machines.

Products for railway construction with a clamping device are certified up to 100 m/s.

Products for transportable bench chop saws

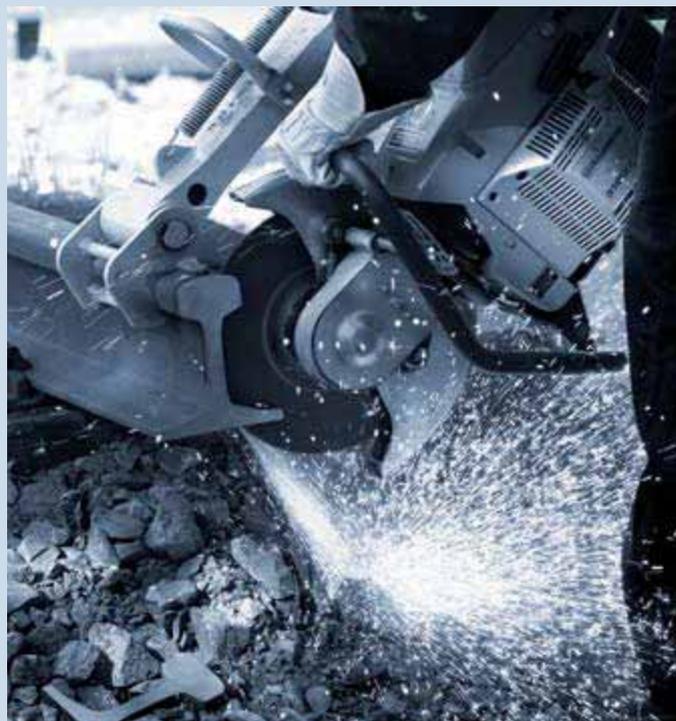
Cutting-wheels for this product group are suitable for low-power bench chop saws. These products may not be used with large stationary and / or hand held machines.

They are known for their high cutting rate, which ensures fast and cool cutting.

Products for stationary saws / cutters

Stationary machines are best suited for economical and safe cutting of large cross-sections and heavy work pieces.

Products in this segment with their outstanding performance and long service life fulfil the most demanding requirements of stationary cutting. Good aggressiveness ensures low thermal loads when working on large cross sections.



Cutting-off wheels
and grinding discs

Which cutting-off wheel is used with which machine?

Large cutting-off wheels for stationary machines and large cutting-off wheels for hand held machines are designed differently and their build is optimized for the respective machine type. For safety reasons large cutting-off wheels for stationary machines may never be used with hand held machines.

The bore diameter of a large cutting-off wheel does not indicate if it is a wheel that can be used with a stationary machine or if it is a wheel that can be used with a hand held machine.

A binding overview regarding which KLINGSPOR wheel type is to be used with which machine type is provided in the table below.

Type	Ø [mm]	Thick-ness [mm]	Bore Ø [mm]	Machines	Max. operating speed	Safety	
						Application type (EN12413)	
A 24 Extra	300	3.5	20 / 22.23	general hand held machines (petrol, electric, high-frequency)	80 m/s	free-hand grinding	
C 24 Extra	300	3.5	20 / 22.23		80 m/s		
A 24 R Supra	250	3	32	stationary saws / cutters	100 m/s	stationary guided grinding	>3 KW
	300	3	22.23 / 25.4 / 30 / 32		100 m/s		>3 KW
	350	3.5	25.4 / 32		100 m/s		>3 KW
	400	4.5	25.4 / 32 / 40		100 m/s		>3 KW
A 24 N Supra	350	3.5	25.4		100 m/s		>3 KW
A 24 R/06 Supra	400	4	25.4		100 m/s		>5 KW
A 24 R Special	300	3.5	20 / 22.23 / 25.4	general hand held machines (petrol, electric, high-frequency)	80 m/s	free-hand grinding	
	350	4	20 / 22.23 / 25.4		80 m/s		
T 24 AX Special	300	3.5	22.23	general hand held machines (petrol, electric, high-frequency, hydraulic) with a clamping device	100 m/s	stationary guided grinding	
	350	4	22.23 / 25.4		100 m/s		
	400	4.5	25.4		100 m/s		
C 24 RA Special	300	3.5	20	general hand held machines, joint cutters (petrol, electric, high-frequency)	80 m/s	free-hand grinding	
	350	4	20 / 25.4		80 m/s		
A 30 N Special	300	2.5	25.4	transportable bench chop saws, chop saws	80 m/s	stationary guided grinding	<3 KW
	350	3	25.4		80 m/s		<3 KW
	400	3.5	25.4		80 m/s		<3 KW
C 24 RT Special	300	3.5	20	general hand held machines (petrol, electric, high-frequency)	80 m/s	free-hand grinding	
C 24 RT/34 Special	300	3.5	20		80 m/s		

Kronenflex® large cutting-off wheels

for petrol driven saw / cutter



Cutting-off wheel A 24 Extra



Advantages

Standard wheel with outstanding price-performance ratio ■ For universal use in metalworking ■ For use on gas-powered 80 m/s free-hand machines ■ High aggressiveness and long service life

Applications:

- Metals

Bond

Medium

Quality class

Extra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
300 x 3,5 x 20		80 m/s	5,100 rpm	10	288221		
300 x 3,5 x 22,23		80 m/s	5,100 rpm	10	288222		

Cutting-off wheel C 24 Extra



Advantages

Optimal for all mineral materials due to sharp, coarse SiC grain ■ Fast cutting ■ For use on gas-powered free-hand machines with a cutting speed of 80 m/s ■ High aggressiveness and long service life

Applications:

- Stone/Concrete

Bond

Medium

Quality class

Extra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
300 x 3,5 x 20		80 m/s	5,100 rpm	10	288223		
300 x 3,5 x 22,23		80 m/s	5,100 rpm	10	288224		

Cutting-off wheels
and grinding discs

Please observe: Please see Applications Guide on page 198 - 205, 224 - 226.

Cutting-off wheel
A 24 R Special

Advantages

Fast cutting, also of solid material ■ Optimized combination for use on steel ■ Can be also used on stainless steel ■ For use on gas-powered 80 m/s free-hand machines ■ Maximum aggressiveness and service life

Applications:

- Steel
- Stainless steel
- Castings

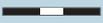
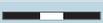
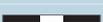
Bond

Medium

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
300 x 3,5 x 20		80 m/s	5,100 rpm	10	288245		
300 x 3,5 x 22,23		80 m/s	5,100 rpm	10	288246		
300 x 3,5 x 25,4		80 m/s	5,100 rpm	10	288247		
350 x 4 x 20		80 m/s	4,400 rpm	10	288248		
350 x 4 x 22,23		80 m/s	4,400 rpm	10	288249		
350 x 4 x 25,4		80 m/s	4,400 rpm	10	288250		

Cutting-off wheel
C 24 RT/34 Special

Advantages

Special combination for concrete/castings ■ For use on gas-powered free-hand machines with a cutting speed of 80 m/s ■ Maximum aggressiveness and service life

Applications:

- Steel
- Castings
- Stone/Concrete

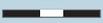
Bond

Medium

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
300 x 3,5 x 20		80 m/s	5,100 rpm	10	288256		

Cutting-off wheel C 24 RA Special



Advantages

Special combination for asphalt ■ No clogging ■ For use on gas-powered free-hand machines with a cutting speed of 80 m/s ■ Maximum aggressiveness and service life

Applications:

- Asphalt
- Stone/Concrete

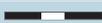
Bond

Hard

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
300 x 3,5 x 20		80 m/s	5,100 rpm	10	288251		
350 x 4 x 20		80 m/s	4,400 rpm	10	288252		
350 x 4 x 25,4		80 m/s	4,400 rpm	10	288253		

Cutting-off wheel C 24 RT Special



Advantages

For all mineral materials ■ Excellent cutting performance ■ For use on gas-powered free-hand machines with a cutting speed of 80 m/s ■ Maximum aggressiveness and service life

Applications:

- Stone/Concrete

Bond

Medium

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
300 x 3,5 x 20		80 m/s	5,100 rpm	10	288254		

Cutting-off wheel
T 24 AX Special

Advantages

For universal use on all rail types ■ Very fast cutting ■ For use on gas-powered cutting-off machines with a cutting speed of 100 m/s and clamping device ■ Maximum aggressiveness and service life due to hardened special aluminum oxide

Applications:

- Steel

Bond

Hard

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
300 x 3,5 x 22,23		100 m/s	6,400 rpm	10	314012		
350 x 4 x 22,23		100 m/s	5,500 rpm	10	314013		
350 x 4 x 25,4		100 m/s	5,500 rpm	10	314014		
400 x 4 x 25,4		100 m/s	4,800 rpm	10	314035		

Cutting-off wheel A 24 R Supra



Advantages

Optimized combination for use on steel ■ Can be used on stainless steel ■ Good cutting properties ■ Optimal for stationary 3 - 5 kW cutting-off machines ■ High aggressiveness and long service life

Applications:

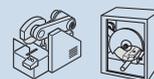
- Steel
- Stainless steel
- Castings

Bond

Medium

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
250 x 3 x 32	▬ ▬ ▬	100 m/s	7,600 rpm	10	2465		
300 x 3 x 22,23	▬ ▬ ▬	100 m/s	6,400 rpm	10	71365		
300 x 3 x 25,4	▬ ▬ ▬	100 m/s	6,400 rpm	10	6793		
300 x 3 x 30	▬ ▬ ▬	100 m/s	6,400 rpm	10	13524		
300 x 3 x 32	▬ ▬ ▬	100 m/s	6,400 rpm	10	6807		
350 x 3,5 x 25,4	▬ ▬ ▬	100 m/s	5,500 rpm	10	13528		
350 x 3,5 x 32	▬ ▬ ▬	100 m/s	5,500 rpm	10	13536		
400 x 4,5 x 25,4	▬ ▬ ▬	100 m/s	4,800 rpm	10	292933		
400 x 4,5 x 32	▬ ▬ ▬	100 m/s	4,800 rpm	10	292932		
400 x 4,5 x 40	▬ ▬ ▬	100 m/s	4,800 rpm	10	296567		

Cutting-off wheel INOX A 24 N Supra



Advantages

Hardened aluminum oxide ■ Special combination prevents smearing and clogging ■ Optimal for stationary 3 - 5 kW cutting-off machines ■ High aggressiveness and long service life

Applications:

- Stainless steel
- Steel
- Aluminium

Bond

Soft

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
350 x 3,5 x 25,4	▬ ▬ ▬	100 m/s	5,500 rpm	10	13527		

Cutting-off wheels and grinding discs

Cutting-off wheel
A 30 N Special

Advantages

For universal use on chop saws ■ Minimal burr formation ■ Can be used on table cutting-off machines < 3 kW ■ Maximum aggressiveness and service life

Applications:

- Steel
- Stainless steel
- Aluminium
- Castings

Bond

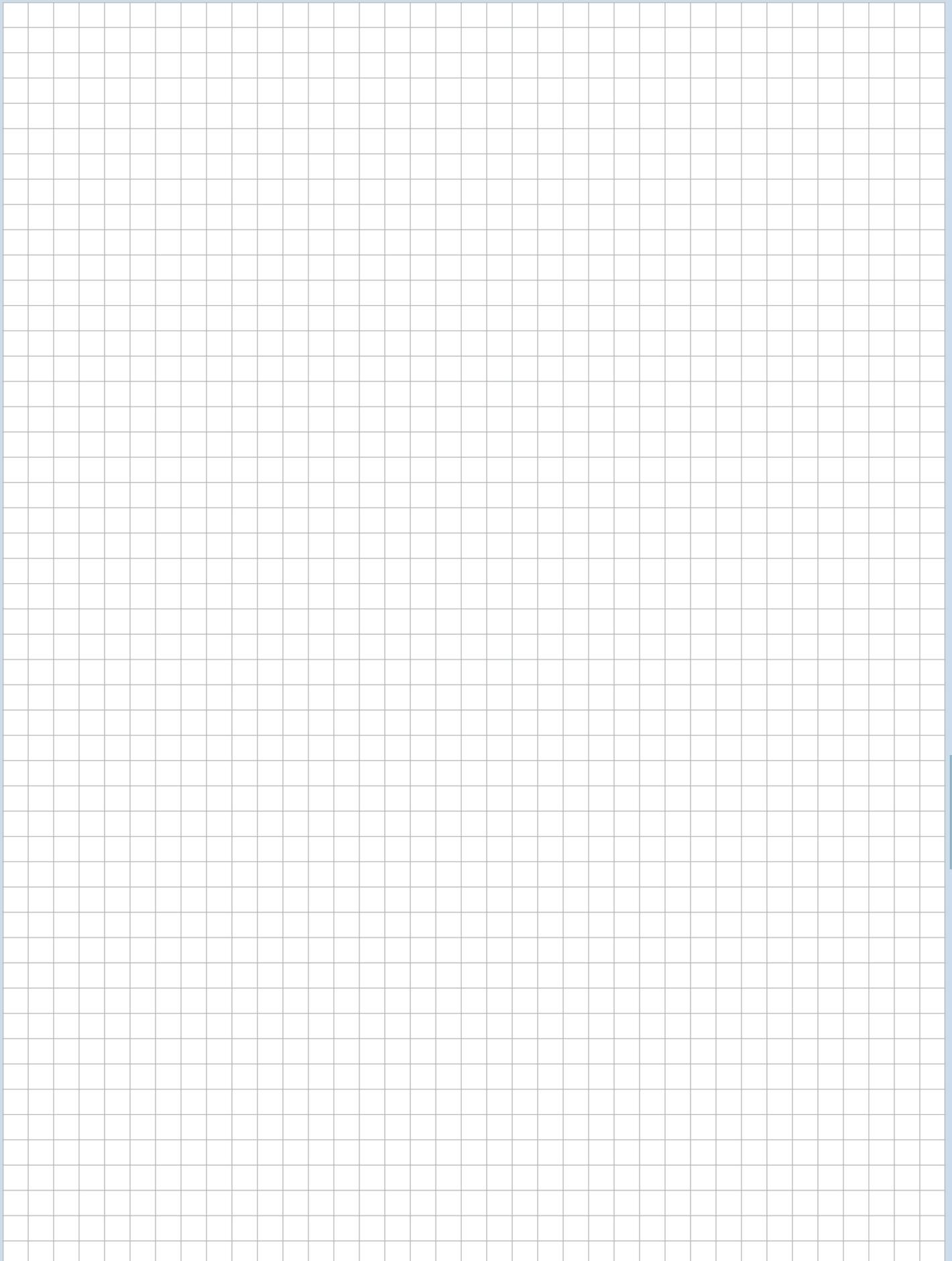
Soft

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
300 x 2,5 x 25,4		80 m/s	5,100 rpm	10	119627		
350 x 3 x 25,4		80 m/s	4,400 rpm	10	119628		
400 x 3,5 x 25,4		80 m/s	3,800 rpm	10	119629		



Kronenflex® grinding discs

Kronenflex® grinding discs are characterised by their permanent high level of attack and maximum stock removal. The optimum relationship between performance and service life is guaranteed up to the complete use of the disc.

Kronenflex® grinding discs are used in all major surface grinding applications, as well as for edge bevelling and burr removal. KLINGSPOR offers professional advice in selecting the right grinding disc for you.

From general metalworking to material-related applications in steel, stainless steel and NF-metals, to the more specialised requirements of the nuclear industry, KLINGSPOR has the products you need. Discs for stone grinding and cup grinding wheels round off our programme.

Our engineers are standing by to help you, should you have specific problems or technical questions. You may take advantage of our technical consulting services whether at KLINGSPOR or directly on site.



Practical tips

The “rule of thumb” also applies to grinding discs: the harder the material, the softer the bond of the grinding disc.

In addition, the application plays a very decisive role.

Corners and burrs have very sharp edges and easily tear the grit out of the bond. We recommend the use of a hard bond.

If on the other hand one is working on surfaces i.e. small welded seams, a disc that is too hard would easily become dull and no longer grip the material. The disc would achieve a good service life, but this would result in a low stock removal rate and high work costs.

For finish grinding the best disc bond is a medium or soft disc bond.

Type	Page	Thickness [mm]	Material applications													
			Steel	Hardened steels	Tool steel	Stainless steel	High-alloy steels	Corrosion and acid proof steels	Aluminium	Bronze	Cooper	Brass	Zinc die-casting	Cast iron	Stone / concrete	
A 24 Extra	235	6.0 - 8.0	●	○	○	○	○	○	○					○	○	
A 24 Extra T	235	6.0 - 8.0	●	○	○	○	○	○	○						○	
A 24 R Supra	236	4.0 - 10	●	●	●	○	○	○	○						○	
A 24 R/01 Special	236	4	●	●	●	○	○	○	○							
A 24 N Supra INOX	237	6.0 - 8.0	○	●	○	●	●	●	●							
A 24 R/36 Special	237	6	○	○	○	●	●	●	●							
A 46 N Supra	238	6.0 - 8.0								●	○	○	○			
A 24 S Supra	238	7	○												●	
AC 24 R Supra	239	8													●	
A 24 TX Special	239	6	○	○	○	○	○	○	○						●	
C 24 R Supra	240	6													○	●

● = main application ○ = possible applications

Grinding disc A 24 Extra



Advantages

Standard disc with excellent price-performance ratio ■ For universal use in metalworking ■ Excellent results on all standard angle grinders ■ High aggressiveness and long service life

Applications:

- Metals

Bond

Medium

Quality class

Extra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
100 x 6 x 16		80 m/s	15,300 rpm	10	189004		
115 x 6 x 22,23		80 m/s	13,300 rpm	10	188465		
125 x 6 x 22,23		80 m/s	12,200 rpm	10	188466		
150 x 6 x 22,23		80 m/s	10,200 rpm	10	235371		
180 x 6 x 22,23		80 m/s	8,500 rpm	10	13444		
180 x 8 x 22,23		80 m/s	8,500 rpm	10	13446		
230 x 6 x 22,23		80 m/s	6,600 rpm	10	13447		
230 x 8 x 22,23		80 m/s	6,600 rpm	10	13448		

Grinding disc A 24 Extra T



Advantages

Optimal for edge work and for removal of stubborn burrs ■ High aggressiveness and long service life

Applications:

- Metals

Bond

Hard

Quality class

Extra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
180 x 6 x 22,23		80 m/s	8,500 rpm	10	13794		
180 x 8 x 22,23		80 m/s	8,500 rpm	10	13445		

Grinding disc
A 24 R Supra

Advantages

With optimized recipe for use on steel ■ Also suitable for use on stainless steel ■ Large product range ■ Very high aggressiveness and long service life

Applications:

- Steel
- Stainless steel
- Castings

Bond

Medium

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
100 x 4 x 16		80 m/s	15,300 rpm	10	13400		
100 x 6 x 16		80 m/s	15,300 rpm	10	6578		
115 x 4 x 22,23		80 m/s	13,300 rpm	10	13746		
115 x 6 x 22,23		80 m/s	13,300 rpm	10	13401		
125 x 4 x 22,23		80 m/s	12,200 rpm	10	240831		
125 x 6 x 22,23		80 m/s	12,200 rpm	10	13402		
150 x 6 x 22,23		80 m/s	10,200 rpm	10	13403		
180 x 4 x 22,23		80 m/s	8,500 rpm	10	13408		
180 x 7 x 22,23		80 m/s	8,500 rpm	10	13413		
180 x 8 x 22,23		80 m/s	8,500 rpm	10	13418		
180 x 10 x 22,23		80 m/s	8,500 rpm	10	13423		
230 x 4 x 22,23		80 m/s	6,600 rpm	10	13428		
230 x 6 x 22,23		80 m/s	6,600 rpm	10	13433		
230 x 8 x 22,23		80 m/s	6,600 rpm	10	13438		

Grinding disc
A 24 R/01 Special

Advantages

Special disc for pipeline and tank construction ■ Suitable for root seams ■ For repair of weld seams ■ Maximum aggressiveness and service life

Applications:

- Steel
- Stainless steel

Bond

Medium

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
125 x 4 x 22,23		80 m/s	12,200 rpm	10	130825		
180 x 4 x 22,23		80 m/s	8,500 rpm	10	13756		

Grinding disc INOX A 24 N Supra



Advantages

High removal rate on stainless steel ■ Optimal ratio between removal and wear ■ Very high aggressiveness and long service life

Applications:

- Stainless steel
- Aluminium

Bond

Soft

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 6 x 22,23		80 m/s	13,300 rpm	10	2923		
125 x 6 x 22,23		80 m/s	12,200 rpm	10	2922		
180 x 4 x 22,23		80 m/s	8,500 rpm	10	13407		
180 x 6 x 22,23		80 m/s	8,500 rpm	10	13412		
180 x 8 x 22,23		80 m/s	8,500 rpm	10	13417		
230 x 6 x 22,23		80 m/s	6,600 rpm	10	13432		

Grinding disc A 24 R/36 Special



Advantages

Special wheel for the nuclear industry ■ Free of iron, sulfur and chlorine ■ Optimal ratio between removal and wear ■ Maximum aggressiveness and service life

Applications:

- Stainless steel

Bond

Medium

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 6 x 22,23		80 m/s	13,300 rpm	10	2488		
125 x 6 x 22,23		80 m/s	12,200 rpm	10	2830		
180 x 6 x 22,23		80 m/s	8,500 rpm	10	2463		

Grinding disc
A 46 N Supra

Advantages

No clogging when used on non-ferrous metals ■ Optimal ratio between removal and wear ■ Very high aggressiveness and long service life

Applications:

- Aluminium

Bond

Soft

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 6 x 22,23		80 m/s	13,300 rpm	10	6622		
125 x 6 x 22,23		80 m/s	12,200 rpm	10	2226		
180 x 6 x 22,23		80 m/s	8,500 rpm	10	13410		
180 x 8 x 22,23		80 m/s	8,500 rpm	10	13415		

Grinding disc
A 24 S Supra

Advantages

For deburring work on cast materials ■ Very high aggressiveness and long service life

Applications:

- Castings
- Steel

Bond

Hard

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
180 x 7 x 22,23		80 m/s	8,500 rpm	10	13411		

Grinding disc

AC 24 R Supra



Advantages

High removal rate on steel and gray cast iron ■ Ideal for workpieces with sand inclusions due to the grit mixture of silicon carbide and aluminum oxide ■ Very high aggressiveness and long service life

Applications:

- Castings

Bond

Hard

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
230 x 8 x 22,23		80 m/s	6,600 rpm	10	252871		

Grinding disc

A 24 TX Special



Advantages

Ideal for use on cast parts ■ Maximum aggressiveness and service life due to hardened aluminum oxide

Applications:

- Castings
- Stainless steel
- Steel

Bond

Hard

Quality class

Special



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
125 x 6 x 22,23		80 m/s	12,200 rpm	10	231251		
230 x 6 x 22,23		80 m/s	6,600 rpm	10	231254		

Cutting-off wheels and grinding discs

Grinding disc
C 24 R Supra

Advantages

Ideal for use on stone and mineral materials ■ High removal rate ■ Very good aggressiveness and very long service life due to sharp, coarse silicon carbide

Applications:

- Stone/Concrete
- Castings

Bond

Medium

Quality class

Supra



Diameter x Width x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
115 x 6 x 22,23		80 m/s	13,300 rpm	10	6664		
125 x 6 x 22,23		80 m/s	12,200 rpm	10	6665		
180 x 6 x 22,23		80 m/s	8,500 rpm	10	13409		

Cup grinding wheel A 16 R Supra



Advantages

For surface grinding and finish grinding of weld seams ■ Very high aggressiveness due to coarse grit

Applications:

- Steel
- Castings

Bond

Medium

Quality class

Supra



Diameter x Height x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
110 x 55 x 22,23		50 m/s	8,600 rpm	6	13729		

Cup grinding wheel A 30 R Supra



Advantages

For surface grinding and finish grinding of weld seams ■ High aggressiveness and very long service life

Applications:

- Steel

Bond

Medium

Quality class

Supra



Diameter x Height x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
110 x 55 x 22,23		50 m/s	8,600 rpm	6	13728		

Cutting-off wheels and grinding discs

Cup grinding wheel
C 16 R Supra

Advantages

For use on surfaces and edges ■ For stone and mineral materials ■ Very good aggressiveness and very long service life due to sharp, coarse silicon carbide

Applications:

- Stone/Concrete
- Castings

Bond

Medium

Quality class

Supra



Diameter x Height x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
110 x 55 x 22,23		50 m/s	8,600 rpm	6	13727		

Cup grinding wheel
C 30 R Supra

Advantages

For use on surfaces and edges ■ For stone and mineral materials ■ Very good aggressiveness and very long service life

Applications:

- Stone/Concrete
- Castings

Bond

Medium

Quality class

Supra



Diameter x Height x Bore in mm	Form	Max. operating speed	Max. RPM	Packing unit/pcs.	Cat. number		
110 x 55 x 22,23		50 m/s	8,600 rpm	6	13726		

