

CS 570 Fibre discs for Stainless steel, Aluminium



Applications

Stainless steel



Aluminium



NF metals



Properties

Bonding agent

Resin

Grain

Zirconia alumina

Coating

Close

Fibre discs CS 570 – fibre discs that deliver a high removal rate on stainless steel, steel, NF metal and aluminium

Grinding work on metal presents a particularly daunting challenge to any abrasive. Metals prove to be difficult materials as they are tough, yet exceptionally hard at the same time. The most formidable of these metals are **stainless steel** and high-alloy steels, so-called super alloys. The **fibre discs** CS 570 tackle these challenges with an extra hard and ultra tough abrasive grain made of **zirconia** alumina that is bonded to a vulcanised fibre backing plate with a strong synthetic resin. The fibre disc CS 570 possesses characteristics that make it a particularly good choice for processing stainless steel and aluminium:

- Cool grinding thanks to multibond
- Close coating
- Grain made of zirconia alumina

The self-sharpening effect provided by the zirconia alumina grain

The zirconia alumina used for the **fibre discs** CS 570 by Klingspor is a synthetically made grain with a crystalline structure that is exceptionally hard and tough. The sharp edges of natural abrasives made of quartz, emery or garnet wear out over time, resulting in reduced abrasive performance. Synthetically made zirconia alumina acts differently. Wear causes individual portions to break out of the crystalline structure, leaving behind new, sharp edges. This will result in a uniform scratch pattern at a continuous removal rate and a long service life.

Prevention of overheating

Fibre discs are perfect for use in high temperatures. The cool grinding ensured by the **green multibond** prevents premature overheating and discolouration of the metal on the workpiece, allowing for smooth operation even at a high contact pressure and high speeds. For safety reasons, the maximum operating speed of a fibre disc when fitted to a backing pad must not exceed 80 metres per second. The following permissible values are designed to keep the speed within this limit:

- For discs with a diameter of 115 mm: 13,300 revolutions per minute
- For discs with a diameter of 125 mm: 12,200 revolutions per minute
- For discs with a diameter of 180 mm: 8,500 revolutions per minute

For use with the fibre discs CS 570

Available for the **fibre discs** CS 570 are matching backing pads, ST 358 A ribbed hard and ST 358 smooth medium. The backing pad must be selected according to the intended application. The medium backing pad is suited for applications requiring a uniform finish as it conforms perfectly to the contours of the workpiece. Its properties make this backing pad ideal for finer grinding work, surface grinding or grinding contours. The hard backing pad is used for rough grinding at high removal rates. It performs especially well when used for deburring and aggressive grinding.

Diameter in mm	Bore in mm	Grit	Vmax in m/s	Max. RPM in rpm	Type of coated abrasives	bore shape	Cat.number
115	22	24	80	13.300	CS 570	star shaped hole	204085
115	22	36	80	13.300	CS 570	star shaped hole	204086
115	22	50	80	13.300	CS 570	star shaped hole	204087
115	22	60	80	13.300	CS 570	star shaped hole	204088
115	22	80	80	13.300	CS 570	star shaped hole	204089
115	22	100	80	13.300	CS 570	star shaped hole	204090
115	22	120	80	13.300	CS 570	star shaped hole	204091
125	22	24	80	12.200	CS 570	star shaped hole	204092
125	22	36	80	12.200	CS 570	star shaped hole	204093
125	22	50	80	12.200	CS 570	star shaped hole	204094
125	22	60	80	12.200	CS 570	star shaped hole	204095
125	22	80	80	12.200	CS 570	star shaped hole	204096
125	22	100	80	12.200	CS 570	star shaped hole	204097
125	22	120	80	12.200	CS 570	star shaped hole	204098
180	22	24	80	8.500	CS 570	star shaped hole	204099
180	22	36	80	8.500	CS 570	star shaped hole	204100
180	22	60	80	8.500	CS 570	star shaped hole	204102
180	22	80	80	8.500	CS 570	star shaped hole	204103
180	22	120	80	8.500	CS 570	star shaped hole	204105
115	22	36	80	13.300	CS 570	round hole	204797
115	22	60	80	13.300	CS 570	round hole	204799
115	22	80	80	13.300	CS 570	round hole	204800
115	22	120	80	13.300	CS 570	round hole	204802
125	22	36	80	12.200	CS 570	round hole	204806
125	22	60	80	12.200	CS 570	round hole	204811
125	22	80	80	12.200	CS 570	round hole	204812
125	22	120	80	12.200	CS 570	round hole	204814
100	16	36	80	15.300	CS 570	round hole	204823
100	16	60	80	15.300	CS 570	round hole	204825
100	16	80	80	15.300	CS 570	round hole	204826
100	16	120	80	15.300	CS 570	round hole	204828
115	22	40	80	13.300	CS 570	star shaped hole	250258
125	22	40	80	12.200	CS 570	star shaped hole	250259
180	22	40	80	8.500	CS 570	star shaped hole	250260