

Flexible Grinding and Polishing Tools

222 General Information/Qualities

225 Lamellar Flap Discs

251 Mounted flap wheels of abrasive cloth

267 Flap wheel consisting of an abrasive fleece and abrasive cloth combination

277 Flap wheels and rolls

287 Flap rolls

293 Abrasive Bands and Mandrels

307 Abrasive Rolls and Mandrels

311 Abrasive Caps and Abrasive Sleeves

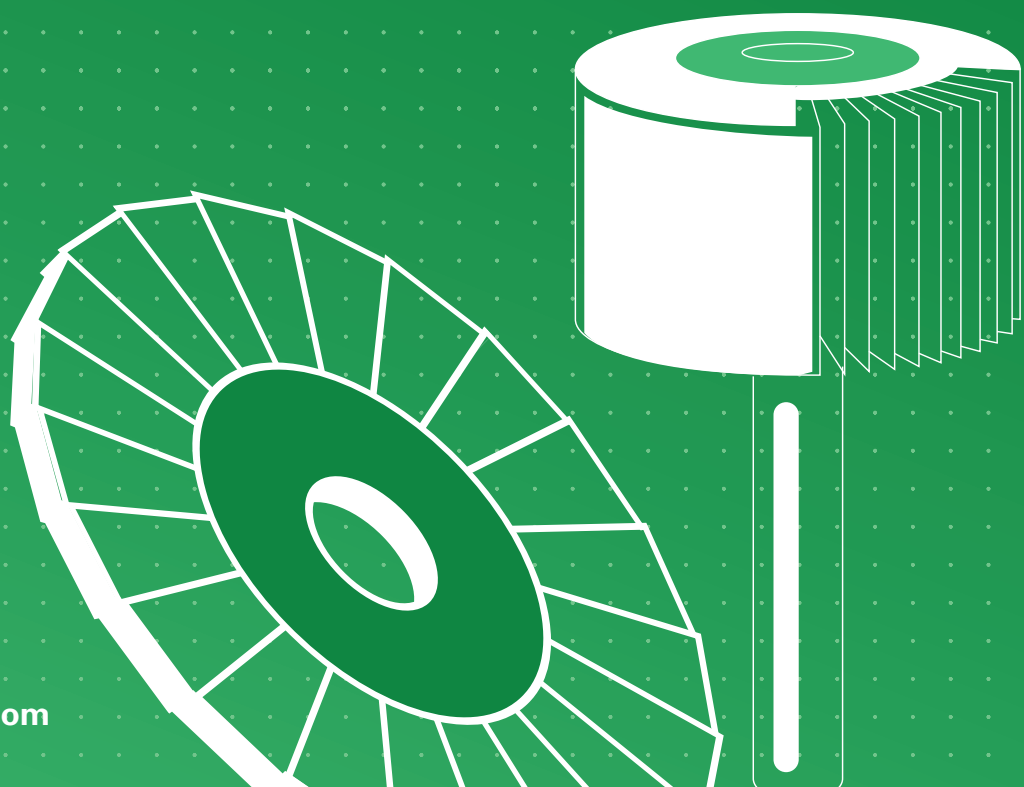
323 Abrasive Discs and Mandrels

341 Fibre discs, backing plates, economy rolls, abrasive sheets and fleece rolls

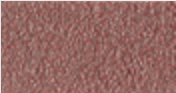
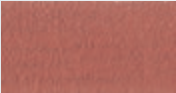




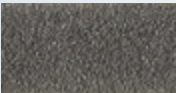
351 AS-Cleaning fleece




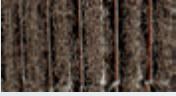




Product line marking

Product lines are labelled in the table header with the appropriate tabs. Further information on page **14** and **15**.



Qualities and Applications

Quality		Characteristics	Applications/Grinding	Available as	Page
 NK	Abrasive cloth with reg. Aluminium Oxide	tough grain	Forged steel, malleable iron, grey cast iron, carbon steel, deep-drawn steels, steel band, zinc die castings, nonferrous metals, wood	flap discs mounted flap wheels flap wheels flap rolls bands abrasive rolls caps abrasive sleeves discs Economy rolls fibre discs sheets of abrasive cloth	242–244 247 253–260 263–264 279–281 289 296–299 302–305 309–310 313 315–319 321 326 336–337 338 348 344–345 349
 NKE	Abrasive cloth using reg. Aluminium Oxide with special coating containing active grinding additives	tough grain	Chrome-nickel and other alloyed steels, deep drawn steels, titanium and titanium alloyed steels, heat resistant steels	mounted flap wheels discs	261 327
 ZK	Abrasive cloth with Zirconia Alum. Oxide	very tough and resilient grain	Forged steels, metals difficult to machine and with extreme hard surfaces i.e. welds, titanium and titanium alloys, heat resistant steels	flap discs abrasive belts discs fibre discs	231–235, 237, 239, 241–247 299–300, 305 328, 333–334 343
 Z POWER	Abrasive cloth using Zirconia Alum. Oxide with special coating containing active grinding additives	optimum stock removal rate, excellent tool life	all alloyed steels	lamellar flap discs abrasive bands abrasive discs	230, 234 295 328
 ZKS	Abrasive cloth using Zirconia Alum. Oxide with special coating containing active grinding additives	M-Bonding with polyester fibre excellent stock removal rate with very good tool life	Forged steels, metals difficult to machine and with extreme hard surfaces i.e. welds, titanium and titanium alloys, heat resistant steels	flap discs	235 241 246 249
 NKS	Abrasive cloth using reg. Aluminium Oxide with special coating containing active grinding additives	optimum stock removal rate, excellent tool life	corrosion and heat resistant steel	abrasive caps	313 315 317
 SIC	Abrasive cloth with Silicon carbide	cool cutting; special quality for the aircraft industry	Aluminium and aluminium alloys, brittle material, glass ceramics, titanium and titanium alloys, heat resistant steels, plastics	flap discs mounted flap wheels discs	235 262 336

Quality		Characteristics	Applications/Grinding	Available as	Page
 D	Diamond coated abrasive cloth	For those instances where conventional abrasive cloth provides too little stock removal	Extreme tool life benefit versus conventional abrasive cloth. Ideally suited for particularly difficult-to-machine and hard work-piece materials. Glass, GRP and CRP, carbide, titanium, stone, ceramic	abrasive belts abrasive discs	295 338
 CERAMIC	Abrasive cloth ceramic grain	optimum stock removal rate without shredding of grain. Very stable due to reinforced backing. Cool cutting	stainless steel, nickel alloys	flap discs abrasive belts discs fibre discs	234, 242 296 329 343
 A	Abrasive fleece with reg. Aluminium Oxide	polishing effect through fibre structure, consistent results due to continuous exposure of new grit particles	Chrome-nickel alloys and other stainless steels, zinc die castings, non-ferrous metals, wood	flap discs mounted flap wheels flap wheels fleece mops flap rolls discs fleece pads fleece rolls	250 270, 272 280–285 285 290–292 330 350
 C	Abrasive fleece with Silicon carbide	polishing effect through fibre structure, consistent results due to continuous exposure of new grit particles	Titanium and titanium alloys, silver and silverplated, aluminium and aluminium alloys, plastics	flap discs mounted flap wheels flap wheels flap rolls fleece pads	250 271 280–284 292 350
 TF	Abrasive fleece/cloth reinforced fleece	Abrasive cloth lamellars and abrasive fleece lamellars of our combined mounted flap wheels wear off more equal. Higher stock removal efficiency.	Ideal for surface finishing of metalsheet components such as stainless steel sinks and containers	mounted flap wheels flap rolls	273 291
 A	Abrasive fleece/abrasive cloth combined Al.-Oxide	intensified grinding action through combination of fleece and abrasive cloth	Chrome-nickel alloys and other stainless steels, zinc die castings, non-ferrous metals, wood	flap discs mounted flap wheels flap rolls	249 273–274 291–292
 C	Abrasive fleece/abrasive cloth combined Sil.-Carbide	intensified grinding action through combination of fleece and abrasive cloth	Titanium and titanium alloys, silver and silverplated, aluminium and aluminium alloys, plastics	flap discs mounted flap wheels	249 275
 AS	Polyamid-Fleece	impregnated with aggressive abrasive grit	removal of paint and adhesives, cement and concrete residues, derusting, restoring and polishing of a wide variety of surfaces.	AS-Tools	353–354
 Z	Abrasive fleece, zirconia aluminium oxide	Polishing effect through fibre structure, more aggressive	Cr-Ni and other stainless steels, zinc injection mouldings, non-ferrous metals	Mounted flap wheels	269

Information

General

Our flexible grinding and polishing tools are manufactured from high quality abrasive cloth and abrasive fleece. They consist of a flexible backing coated with abrasive grain (please refer to page 222 and 223)

Backings used: cloth, polyester fibre, fleece, fibre

Grain types used:

aluminium oxide (NK), silicon carbide (SIC), zirconia aluminium oxide (ZK), ceramic (ceramic)

Our flexible grinding and polishing tools are available in several different shapes and dimensions; they cover a wide spectrum of application i.e. from high stock removal to achieving an extremely fine surface finish.

Operating recommendations

An increase in speed makes the abrasive grit act finer; a reduction in speed makes the abrasive grit act coarser.

Do not apply high pressure; performance will not increase and tool life will be reduced.

If stock removal is insufficient select a coarser grit size, do not increase pressure. The use of grinding additives can improve the efficiency.

Safety instructions

Please note our recommended operating speeds.

When using and storing flexible grinding and polishing tools, please take note of the safety regulations and regulations for prevention of accidents, including the FEPA-safety recommendations.

The tools are marked with pictograms according to FEPA recommendations for the use of coated abrasives.

Points to consider when choosing the optimum grinding and polishing tool:

