

Flap Discs



Karbosan flap discs are offered in various types to meet different application needs.



Product Category Information

Karbosan flap discs are offered in various types to meet different application needs. Flap discs are served with a total of 10 different types of Aluminum Oxide, Zirconium and Ceramic abrasives, from 36 grit to 120 grit, from 100mm diameter to 180mm diameter, with various density types on conical and flat fiberglass backings.

Karbosan flap discs are divided into 3 main groups; **Comfort Line** with cotton abrasive backing, **Universal Line** and **Premium Line** with Polycotton abrasive backing; also composed of 3 different density types; low, standard and high.

Category	Abrasive	Product Code	Backing	LD Low Density	SD Standard Density	HD High Density
Comfort Line	AO Aluminum Oxide	AXER11	X Heavy Cotton Cloth			
	ZR Zirconia	ZXR11				
Universal Line	ZR Zirconia	ZXPR11				
Premium Line	AO Aluminum Oxide	AXPR11	X Heavy Poly-Cotton Cloth			
	100% ZR Zirconia	ZXPR22	Y Poly-Cotton Cloth			
	CE Ceramic	CEY51				
New Product	ZR Zirconia	ZXR12	X Heavy Cotton Cloth			

Backing Types

Fibre Glass



Plastic



Categories

<i>Comfort Line</i>	<i>Universal Line</i>	<i>Premium Line</i>
- Used for low pressure and low power operations 100% Cotton abrasive backing	- For medium to high pressure and power operations - Polycotton abrasive backing resistant to heavy applications	- Used for high pressure and high power operations - Polycotton abrasive backing resistant to heavy applications

Densities

LD Low Density



- Once adequate performance is needed
- Economical product with less flaps
- Reasonable price, suitable for personal use

SD Standard Density



- High stock removal operations
- Suitable for all application areas
- Favored in price - performance perspective

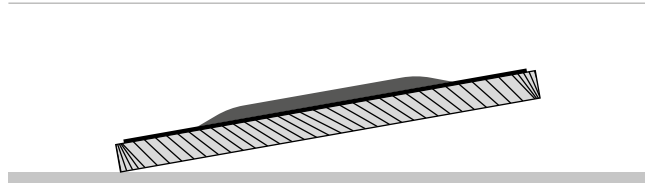
HD High Density



- Aggressive sanding of curved and wide surfaces
- Long life product with wider and more flaps
- Ideal for industrial heavy duty applications

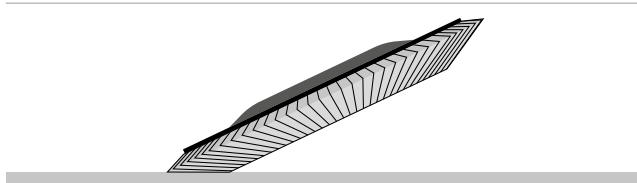
Types and Diameters

Flat Type



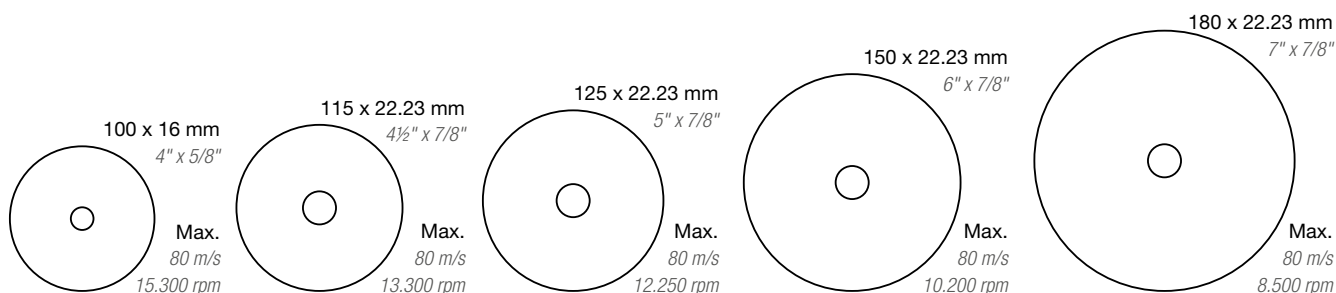
- Used in flat surfaces
- Ideal for blending and finishing
- Applied primarily between 0° to 15°

Conical Type



- Used in concaved surfaces and edges
- High stock removal with best surface contact
- Applied primarily between 15° to 25°

Flap Disc Diameters



Advantages of Flap Discs

Advantages Against Grinding Discs

- Faster and easier stock removal
- Smoother finishing
- Cooler grinding with reduced adhesion and less lubricant
- Lighter equipment, easier control
- Less vibration, less operator fatigue, less noise

Advantages Against Fibre Discs

- Longer lifetime, lower cost
- Fewer disc changes, less labor cost
- More consistent finish
- No back-up pad required
- Easier storage and longer shelf life

Product Types

**Comfort
Line**

ZR
Zirconia

Product Code

ZXR11

Backing

X Heavy Cotton Cloth

**New
Product**

ZR
Zirconia

Product Code

ZXR12

Backing

X Heavy Cotton Cloth

**Comfort
Line**

A0
Aluminum Oxide

Product Code

AXER11

Backing

X Heavy Cotton Cloth

**Universal
Line**

ZR
Zirconia

Product Code

ZXPR11

Backing

X Heavy Poly-Cotton Cloth

**Premium
Line**

CE
Ceramic

Product Code

CEY51

Backing

Y Poly-Cotton Cloth

**Premium
Line**

A0
Aluminum Oxide

Product Code

AXPR11

Backing

X Heavy Poly-Cotton Cloth

**Premium
Line**

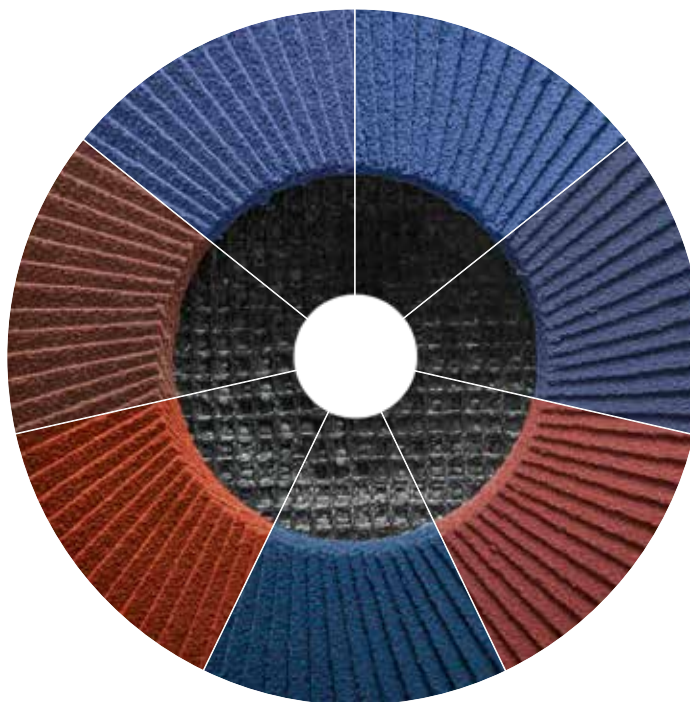
**%100
ZR**
Zirconia

Product Code

ZXPR22

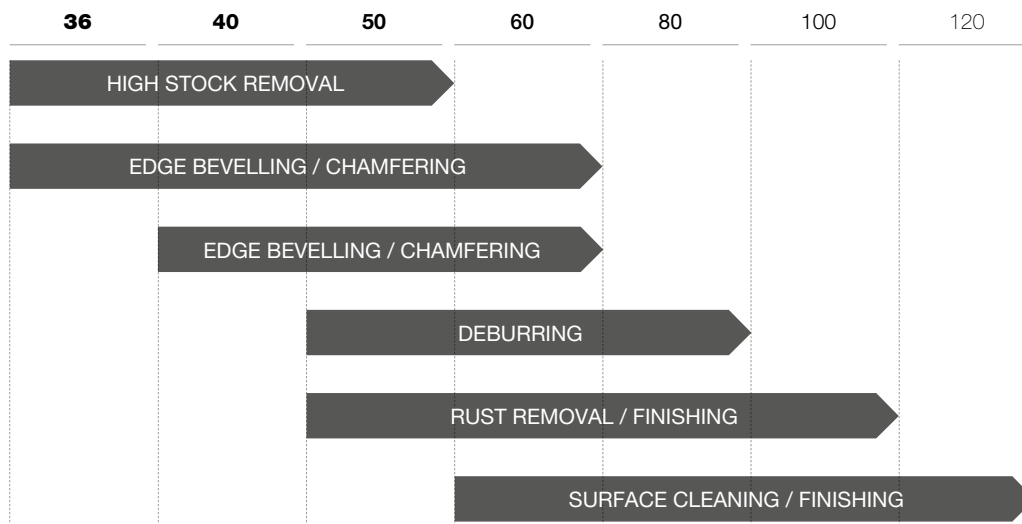
Backing

Y Poly-Cotton Cloth



Grit Size Application Guide

Coarse Grit Fine Grit



Application and Performance Table

- Perfect
- Suitable
- Possible

	Abrasive	Wood	Low Alloy Steel	Stainless Steel / Inox	High Alloy Steel / Heat Resistant Steel	Aluminium / Zamak	Brass / Copper / Non Ferrous Metal	Plastic / Rubber / Leather	Cast Iron	LD Low Density	SD Standard Density	HD High Density
Comfort Line	AO Aluminum Oxide AXER11	●●	●●●	●		●	●	●		Stock Removal ●○○○○	Stock Removal ●●○○○	
	ZR Zirconia ZXR11	●	●●●	●●●	●					Stock Removal ●●○○○	Stock Removal ●●○○○	
Universal Line	ZR Zirconia ZXP11		●●●	●●	●				●		Stock Removal ●●●○○	
											Lifetime ●●●○○	
Premium Line	AO Aluminum Oxide AXPR11	●	●●●	●		●	●	●	●		Stock Removal ●●●○○	
	%100 ZR Zirconia ZXP22		●●●	●	●●				●		Stock Removal ●●●○○	Stock Removal ●●●○○
	CE Ceramic CEY51		●	●●●	●●●				●		Stock Removal ●●●○○	
New Product	ZR Zirconia ZXR12	●	●●●	●●●	●					Stock Removal ●●○○○	Stock Removal ●●○○○	Stock Removal ●●○○○
										Lifetime ●●○○○	Lifetime ●●○○○	Lifetime ●●○○○

Label Information

Brand	Outer Information Strip											
Category												
Product Group												
Abrasive Type	Density											
Inner Information Strip	Grit Size and Flap Type											
Application Type	Article, Origin, Barcode and Website											
Dimensions	Information Pictogram											
Rotation and Speed Data	Standard Conformity and OSA Membership Logo											
Safety and Personal Protective Equipment Pictograms												



Comfort Line Flap Discs



AO *Comfort Line*
Aluminum Oxide **LD** Low Density



Stock Removal ● ○ ○ ○ ○
Lifetime ● ● ○ ○ ○

Product Code : AXER11
Abrasive : Aluminum Oxide
Backing : X Heavy Cotton Cloth
Application : Multipurpose grinding for steel and metal.
Density : Less flap version Low Density flap discs are economic with required performance.

Type	Dimension (mm)	Peripheral Speed (m/s)	40	60	80	120	Box	M. Box
 Flat	115x22.23	80	981170	981180	981185	981195	10	120
	125x22.23		981330	981340	981345	981355	10	120
	180x22.23		981650	981660	981665	981675	10	80
 Conical	115x22.23	80	981210	981220	981225	981235	10	120
	125x22.23		981370	981380	981385	981395	10	120
	180x22.23		981690	981700	981705	981715	10	80



Comfort Line Flap Discs

AO *Comfort Line*

SD Standard Density

Aluminum Oxide



Stock Removal ●●●○○○
Lifetime ●●●○○○



Product Code : AXER11
Abrasive : Aluminum Oxide
Backing : X Heavy Cotton Cloth
Application : Multipurpose grinding for steel and metal.
Density : Optimum flap version Standard Density flap discs are preferred in high stock removal operations.

Type	Dimension (mm)	Peripheral Speed (m/s)	40	60	80	120	Box	M. Box
 Flat	100x16	80	981090	981100	981105	981115	10	120
	115x22.23		981250	981260	981265	981275	10	120
	125x22.23		981410	981420	981425	981435	10	120
	150x22.23		981570	981580	981585	981595	10	80
	180x22.23		981730	981740	981745	981755	10	80
 Conical	100x16	80	981130	981140	981145	981155	10	120
	115x22.23		981290	981300	981305	981315	10	120
	125x22.23		981450	981460	981465	981475	10	120
	150x22.23		981610	981620	981625	981635	10	80
	180x22.23		981770	981780	981785	981795	10	80



*Plastic Backing Pad option is available.



Iron and sulfur
less than 0.1%.

ZR

Comfort Line

LD Low Density



Stock Removal ●●●○○○
Lifetime ●●●○○○

Product Code : ZXR11
Abrasive : Zirconia
Backing : X Heavy Cotton Cloth
Application : Weld grinding, deburring and blending applications for steel and stainless steel (Inox).
Density : Less flap version Low Density flap discs are economic with required performance

Type	Dimension (mm)	Peripheral Speed (m/s)	24	36	40	50	60	80	100	120	Box	M. Box
Flat	115x22.23	80	982040	982045	982050	982055	982060	982065	982070	982075	10	120
	125x22.23		982280	982285	982290	982295	982300	982305	982310	982315	10	120
	180x22.23		982680	982685	982690	982695	982700	982705	982710	982715	10	80
Conical	115x22.23	80	982080	982085	982090	982095	982100	982105	982110	982115	10	120
	125x22.23		982320	982325	982330	982335	982340	982345	982350	982355	10	120
	180x22.23		982720	982725	982730	982735	982740	982745	982750	982755	10	80



Comfort Line Flap Discs

ZR *Comfort Line*
Zirconia

SD Standard
Density



Stock Removal ●●●○○○
Lifetime ●●●○○○

Product Code : ZXR11
Abrasive : Zirconia
Backing : X Heavy Cotton Cloth
Application : Weld grinding, deburring and blending applications for steel and stainless steel (Inox).
Density : Optimum flap version Standard Density flap discs are preferred in high stock removal operations.



Iron and sulfur
less than 0.1%.

Type	Dimension (mm)	Peripheral Speed (m/s)	24	36	40	50	60	80	100	120	Box	M. Box
 Flat	100x16	80	981880	-	981890	-	981900	981905	-	981915	10	120
	115x22.23		982120	982125	982130	982135	982140	982145	982150	982155	10	120
	125x22.23		982360	982365	982370	982375	982380	982385	982390	982395	10	120
	180x22.23		982760	982765	982770	982775	982780	982785	982790	982795	10	80
 Conical	100x16	80	981920	-	981930	-	981940	981945	-	981955	10	120
	115x22.23		982160	982165	982170	982175	982180	982185	982190	982195	10	120
	125x22.23		982400	982405	982410	982415	982420	982425	982430	982435	10	120
	180x22.23		982800	982805	982810	982815	982820	982825	982830	982835	10	80



*Plastic Backing Pad option is available.

Comfort Line Flap Discs



Fe-S
< 0.1%
Iron and sulfur
less than 0.1%.

ZR *Comfort Line*
Zirconia **HD** High Density

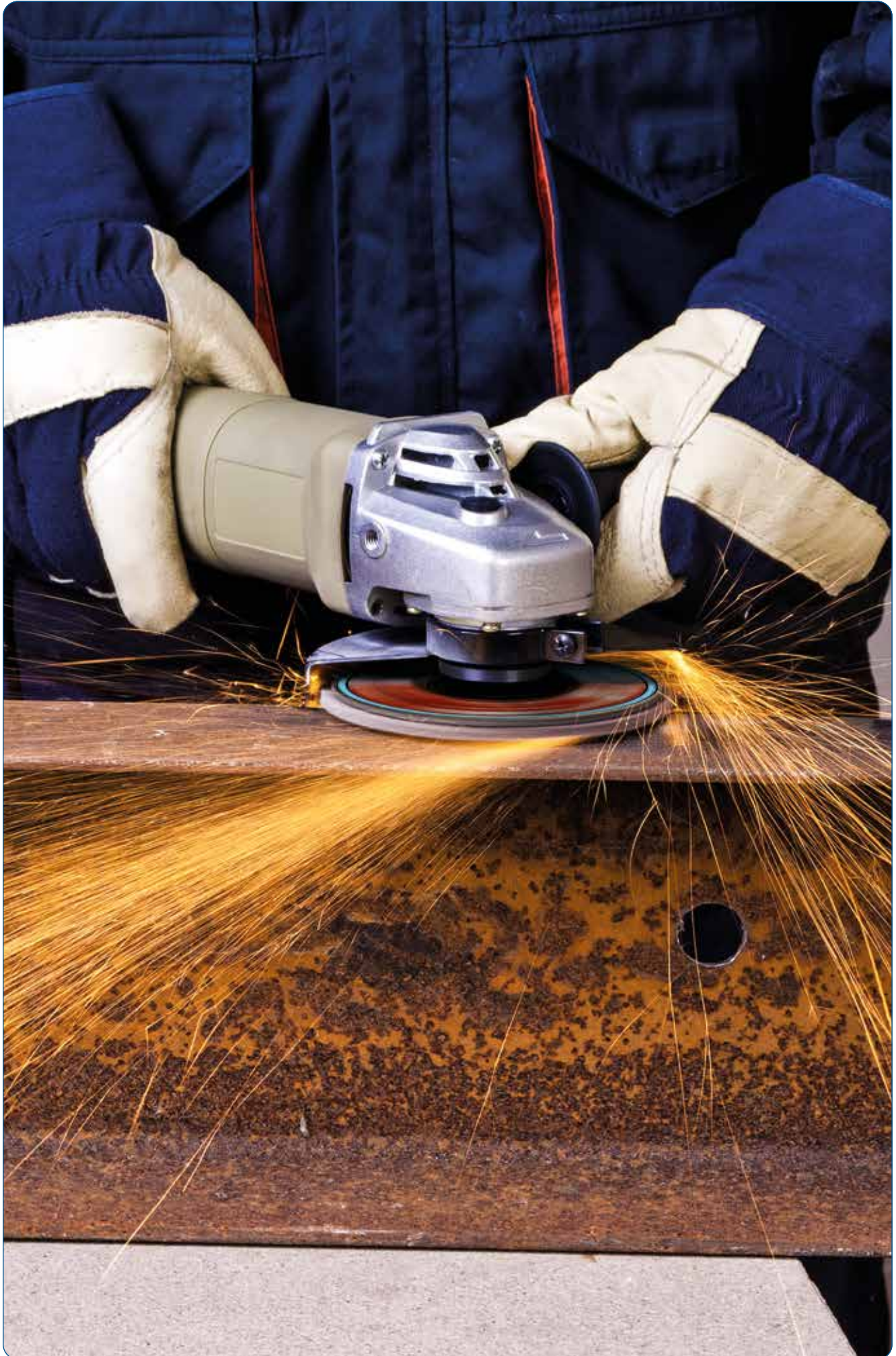


Stock Removal ●●●●○
Lifetime ●●●○●

Product Code : ZXR11
Abrasive : Zirconia
Backing : X Heavy Cotton Cloth
Application : Weld grinding, deburring and blending applications for steel and stainless steel (Inox).
Density : More flap version High Density flap discs are preferred in aggressive sanding of curved and wide surfaces.

Type	Dimension (mm)	Peripheral Speed (m/s)	24	36	40	50	60	80	100	120	Box	M. Box
 Flat	115x22.23	80	982200	-	982210	-	982220	982225	-	982235	10	120
	125x22.23		982440	-	982450	-	982460	982465	-	982475	10	120
	180x22.23		930746	-	930748	-	930753	930754	-	930756	10	80
 Conical	115x22.23	80	982240	-	982250	-	982260	982265	-	982275	10	120
	125x22.23		982480	-	982490	-	982500	982505	-	982515	10	120
	180x22.23		930768	-	930770	-	930772	930773	-	930775	10	80





Universal Line Flap Discs



ZR *Universal Line*
Zirconia

SD Standard Density



Stock Removal ●●●●○

Lifetime ●●●○●

Product Code : ZXPR11
 Abrasive : Zirconia
 Backing : X Heavy Poly-Cotton Cloth
 Application : Multipurpose aggressive grinding for steel, stainless steel (inox) and metal.
 Density : Optimum flap version Standard Density flap discs are preferred in high stock removal operations.

Type	Dimension (mm)	Peripheral Speed (m/s)	24	36	40	50	60	80	100	120	Box	M. Box
 Flat	100x16	80	952567	-	930130	-	930140	930150	-	930700	10	120
	115x22.23		952584	958978	930160	958984	930170	930180	958973	930710	10	120
	125x22.23		952600	959182	930190	-	930200	930210	959177	930720	10	120
	150x22.23		952616	-	931920	-	-	-	-	-	10	80
	180x22.23		952632	959311	930220	959316	930230	930240	959309	930730	10	80
 Conical	100x16	80	952576	-	930370	-	930380	930390	-	930660	10	120
	115x22.23		952592	932000	930400	959091	930410	930420	932030	930670	10	120
	125x22.23		952608	959249	930430	959257	930440	930450	959243	930680	10	120
	150x22.23		952624	-	931280	-	931250	931260	-	931290	10	80
	180x22.23		952640	932140	930460	959352	930470	930480	959341	930690	10	80



*Plastic Backing Pad option is available.

Premium Line Flap Discs

AO *Premium Line*
Aluminum Oxide

SD Standard Density



Stock Removal ●●●○○○
Lifetime ●●●○○○



Product Code : AXPR11
Abrasive : Aluminum Oxide
Backing : X Heavy Poly-Cotton Cloth
Application : Multipurpose aggressive grinding for steel and metal.
Density : Optimum flap version Standard Density flap discs are preferred in high stock removal operations.

Type	Dimension (mm)	Peripheral Speed (m/s)	36	40	60	80	100	120	150	180	220	240	Box	M. Box
 Flat	100x16	80	-	982850	982860	982865	-	982875	991419	991420	991421	997704	10	120
	115x22.23		982925	982930	982940	982945	982950	982955	991422	991423	991424	997705	10	120
	125x22.23		983005	983010	983020	983025	983030	983035	991425	991426	991427	997706	10	120
	180x22.23		983165	983170	983180	983185	983190	983195	991428	991429	991430	997707	10	80
 Conical	100x16	80	-	982890	982900	982905	-	982915	991431	991432	991433	997712	10	120
	115x22.23		982965	982970	982980	982985	982990	982995	991434	991435	991436	997711	10	120
	125x22.23		983045	983050	983060	983065	983070	983075	991437	991438	991439	997710	10	120
	180x22.23		983205	983210	983220	983225	983230	983235	991440	991441	991442	997709	10	80



*Plastic Backing Pad option is available.

Premium Line Flap Discs



Iron and sulfur
 less than 0.1%.

100% Premium Line
ZR SD Standard
 Zirconia Density



Stock Removal ●●●●○
 Lifetime ●●●●○

Product Code : ZXPR22
 Abrasive : 100% Zirconia
 Backing : Y Poly-Cotton Cloth
 Application : Weld grinding, deburring and blending applications for metal, steel and stainless steel (Inox).
 Density : Optimum flap version Standard Density flap discs are preferred in high stock removal operations.

Type	Dimension (mm)	Peripheral Speed (m/s)	24	36	40	50	60	80	100	120	Box	M. Box
Flat	100x16	80	983240	-	983250	-	983260	983265	-	983275	10	120
	115x22.23		983400	983405	983410	983415	983420	983425	983430	983435	10	120
	125x22.23		983560	983565	983570	983575	983580	983585	983590	983595	10	120
	150x22.23		983720	-	983730	-	983740	983745	-	983755	10	80
	180x22.23		983880	983885	983890	983895	983900	983905	983910	983915	10	80
Conical	100x16	80	983280	-	983290	-	983300	983305	-	983315	10	120
	115x22.23		983440	983445	983450	983455	983460	983465	983470	983475	10	120
	125x22.23		983600	983605	983610	983615	983620	983625	983630	983635	10	120
	150x22.23		983760	-	983770	-	983780	983785	-	983795	10	80
	180x22.23		983920	983925	983930	983935	983940	983945	983950	983955	10	80



*Plastic Backing Pad option is available.

Premium Line Flap Discs

100% *Premium Line* ZR HD High Density Zirconia



Stock Removal ●●●●●●
Lifetime ●●●●○

- Product Code : ZXPR22
Abrasive : 100% Zirconia
Backing : Y Poly-Cotton Cloth
Application : Weld grinding, deburring and blending applications for steel and stainless steel (Inox).
Density : More flap version High Density flap discs are preferred in aggressive sanding of curved and wide surfaces.



Iron and sulfur
less than 0.1%.

Type	Dimension (mm)	Peripheral Speed (m/s)	24	36	40	50	60	80	100	120	Box	M. Box
 Flat	115x22.23	80	983480	-	983490	-	983500	983505	-	983515	10	120
	125x22.23		983640	-	983650	-	983660	983665	-	983675	10	120
	180x22.23		983960	-	983970	-	983980	983985	-	983995	10	80
 Conical	115x22.23	80	983520	-	983530	-	983540	983545	-	983555	10	120
	125x22.23		983680	-	983690	-	983700	983705	-	983715	10	120
	180x22.23		984000	-	984010	-	984020	984025	-	984035	10	80



*Plastic Backing Pad option is available.