

XC20-SERIES

PRE-FORMED BEND CERAMIC HOSE

ABRASOR®

Abrasor® XC20 Series Pre-formed Bend Ceramic Hoses are designed to achieve tighter radius bends than standard straight-length hoses. Abrasor® ceramic hose merges the superior cut, scratch, and tear resistance of ceramic with the impact absorption and flexibility of rubber delivering the ultimate hose solution for handling the most aggressive slurry applications.

Designed for the rigorous demands of the mining industry, our hoses are ideal for transporting abrasive slurries in various applications, such as mineral processing plants, tailings pipelines and dredging. Abrasor® is manufactured in Australia, making it ideal for the harshest applications in mine sites across the world.



TECHNICAL SPECIFICATIONS

Hose size	DN25 - 1200
Tangent Length	Up to 3m one end
Bend Radius	1.5D, 3D, 5D, Custom
Bend Angle	30°, 45°, 60°, 90°, Custom
Pressure rating	-100kPa - +5000kPa
End connections	Plain Swivel flange(beaded) Fixed flange Flanged spigot (swivel or fixed) Raised Cuffed Custom
Flange patterns	AS2129, ASME B16.5, ASME B16.47, AWWA C207, AS4087, BS EN 1092, BS 3293, JIS B2220, SANS 1123, DIN ISO 7005, custom
Safety factor	4:1
Temperature rating	-30 to +80 (ABRASATECH)
Optional extras	Anti-static wire Wear monitor ID tagging

MATERIAL SPECIFICATIONS

Ceramic Liner	92% Alumina (standard) 95% Alumina 99% Alumina Zirconia toughened alumina
Inner Liner	ABRASATECH (for high wear slurry) QUARRYTECH (for fine sands slurry) ROCKTECH (for large rock slurry)
Reinforcement	Spiralled synthetic fabric Wire helix
Outer cover	ABRASATECH (for abrasion and UV resistance) NEOTECH FRAS (for FRAS or oily environments) FLOWTECH (for extreme UV or seawater)
Connection material	Hot dipped gal (as standard) Stainless steel (SS316, SS304) Carbon steel Painted Custom

TECHNICAL PROPERTIES

HOSE SIZE		STANDARD CERAMIC LINER THICKNESS	MAX CERAMIC LINER THICKNESS	VACUUM RATING	STANDARD WORKING PRESSURE		MAX WORKING PRESSURE		SAFETY FACTOR	STANDARD CENTRELINE RADIUS		
DN	mm	mm	mm	%	kPa	PSI	kPa	PSI	Ratio	1.5D (mm)	3D (mm)	5D (mm)
50	50.8	4.5	4.5	100	1000	145	5000	1160	4:1	75	150	250
80	76.2	4.5	4.5	100	1000	145	5000	1160	4:1	120	240	400
100	101.6	4.5	6	100	1000	145	5000	1160	4:1	150	300	500
125	127	4.5	6	100	1000	145	5000	1160	4:1	187.5	375	625
150	152.4	4.5	6	100	1000	145	5000	1160	4:1	225	450	750
200	203.2	4.5	12	100	1000	145	5000	1160	4:1	300	600	1000
250	254	4.5	12	100	1000	145	5000	1160	4:1	375	750	1250
300	304.8	4.5	12	100	1000	145	4000	870	4:1	450	900	1500
350	355.6	4.5	12	100	1000	145	4000	870	4:1	525	1050	1750
400	406.4	4.5	12	100	1000	145	3000	725	4:1	600	1200	2000
450	457.2	4.5	12	100	1000	145	2500	580	4:1	675	1350	2250
500	508	4.5	12	100	1000	145	2500	580	4:1	750	1500	2500
550	558.8	4.5	12	100	1000	145	2500	580	4:1	825	1650	2750
600	610	4.5	12	100	1000	145	2500	580	4:1	900	1800	3000
650	660.4	4.5	12	100	1000	145	2000	363	4:1	975	1950	3250
700	711.2	4.5	12	100	1000	145	2000	363	4:1	1050	2100	3500
750	762	4.5	12	100	1000	145	2000	363	4:1	1125	2250	3750
800	812.8	4.5	12	100	1000	145	2000	363	4:1	1200	2400	4000
900	914.4	4.5	12	100	1000	145	2500	363	4:1	1350	2700	4500
1000	1016	4.5	12	100	700	102	2000	363	4:1	1500	3000	5000
1100	1117.2	4.5	12	100	700	102	2000	363	4:1	1650	3300	5500
1200	1219.2	4.5	12	100	700	102	2000	363	4:1	1800	3600	6000

Key notes

1. Hoses can be fully customised to non-standard specifications including, inside diameter, outside diameter, liner thickness, working pressure, bend radius and weight
2. As standard ceramic tiles will have complete coverage throughout entire hose lining. Custom options can include ceramic tiles only on outer radius where abrasion resistance is especially critical
3. Max liner thickness and working pressure will not be compatible with all end configurations, please get in contact with us to find out more