

ABRASOR[®]

XC30 Series Reducing Ceramic Hose



BUILT FOR
EXTREME WEAR.

The Next Level in Ceramic Hose Performance

Abrador Ceramic Hose is designed for slurry applications where conventional rubber liners reach their practical limits. By combining high-density ceramic wear liners with a heavy duty rubber hose construction, Abrador provides exceptional wear resistance while retaining the flexibility, impact absorption and installation benefits of rubber hose.

Our ceramic liners are selected to suit the severity and wear characteristics of each application, with options capable of achieving significantly greater wear life in highly aggressive slurry service. We only select the highest quality ceramic liners, and our bonding system guarantees a 100% adhesion level between the ceramic and rubber.

Manufactured in Australia under our ISO 9001 certified quality management system, every ceramic hose is built, inspected and tested to documented standards. With complete in-house manufacturing control, we can customise each hose around the application, including diameter, length, ceramic type, connection arrangement and overall construction.

The result is a flexible wear solution designed for the areas of a slurry system where abrasion is at its most severe.



Extreme Wear Protection

High density ceramic tiles provide exceptional resistance to severe sliding abrasion, significantly extending service life in high wear slurry applications.



Australian Manufactured

Every Abrador Ceramic Hose is manufactured under our ISO 9001 certified quality system, giving us complete control over construction, inspection and final quality.



100% Ceramic Adhesion

Our controlled bonding system creates complete adhesion between the ceramic liner and surrounding rubber, helping prevent tile movement and maintain liner integrity.

XC30-SERIES REDUCING CERAMIC HOSE

ABRASOR®

Abrasor XC30 Series Reducing Ceramic Hoses are designed for the most severe slurry transfer applications where maximum wear life, flexibility and reliability are essential. By combining the exceptional hardness and abrasion resistance of ceramic with the flexibility and impact absorption of rubber, Abrasor ceramic hoses delivers outstanding performance in applications where conventional ceramic lined pipe or rubber hose reaches its limits.

Manufactured using our exclusive Abrasatech wear liner technology, each hose can be customised with premium ceramic materials to suit the specific wear characteristics of the application. Designed for seamless transitions between two pipelines of varying diameters, available in both concentric and eccentric designs. Manufactured in Australia, Abrasor is the product of choice for mine sites across the world.



TECHNICAL SPECIFICATIONS

Hose size	DN25 – DN1200
Reducing Styles	Concentric, Eccentric, One-end enlarged
Length	Up to 20mt
Pressure rating	-100kPa - +8000kPa
Ceramic Adhesion Level	100% Rubber Tear
End connections	Plain Swivel flange(beaded) Fixed flange Flanged spigot (swivel or fixed) Victaulic spigot (shouldered, roll grooved, cut grooved) Threaded 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 ZTA - Zirconia Toughened Alumina YTZ - Zirconium Oxide SiC - Silicon Carbide
Secondary Liner	ABRASATECH (for general 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

Learn More at pacflotech.com.au

HOSE TECHNICAL PROPERTIES

HOSE SIZE		STANDARD CERMIC THICKNESS	MAX CERAMIC THICKNESS	VACUUM RATING	STANDARD WORKING PRESSURE		MAX WORKING PRESSURE		SAFETY FACTOR
DN	mm	mm	mm	%	kPa	PSI	kPa	PSI	Ratio
50	50.8	4	4	100	1000	145	8000	1160	4:1
80	76.2	4	6	100	1000	145	8000	1160	4:1
100	101.6	4	6	100	1000	145	8000	1160	4:1
125	127	4	6	100	1000	145	8000	1160	4:1
150	152.4	4	6	100	1000	145	8000	1160	4:1
200	203.2	4	6	100	1000	145	8000	1160	4:1
250	254	4	12	100	1000	145	8000	1160	4:1
300	304.8	4	12	100	1000	145	6000	870	4:1
350	355.6	4	12	100	1000	145	6000	870	4:1
400	406.4	4	12	100	1000	145	5000	725	4:1
450	457.2	4	12	100	1000	145	4000	580	4:1
500	508	4	12	100	1000	145	4000	580	4:1
550	558.8	4	12	100	1000	145	4000	580	4:1
600	610	4	12	100	1000	145	4000	580	4:1
650	660.4	4	12	100	1000	145	2500	363	4:1
700	711.2	4	12	100	1000	145	2500	363	4:1
750	762	4	12	100	1000	145	2500	363	4:1
800	812.8	4	12	100	1000	145	2500	363	4:1
850	863.6	4	12	100	1000	145	2500	363	4:1
900	914.4	4	12	100	1000	145	2500	363	4:1
950	965.2	4	12	100	1000	145	2500	363	4:1
1000	1016	4	12	100	700	102	2500	363	4:1
1050	1066.8	4	12	100	700	102	2500	363	4:1
1100	1117.2	4	12	100	700	102	2500	363	4:1
1150	1168.4	4	12	100	700	102	2500	363	4:1
1200	1219.2	4	12	100	700	102	2500	363	4:1

CERAMIC TECHNICAL PROPERTIES

MATERIAL	DENSITY	IMPACT RESISTANCE	VICKERS HARDNESS	ABRASION LOSS	WEAR LIFE	CRACK RESISTANCE
	g/cc3	Mpa m1/2	Hv20	Cm3	vs 92%	vs 92%
92% Alumina	3.6	3.70	950	0.25	1.0x	1.0x
95% Alumina	3.77	4.10	1150	0.16	1.6x	1.1x
99% Alumina	3.83	4.20	1200	0.10	2.5x	1.1x
ZTA	4.10	4.50	1350	0.05	5x	1.2x
YTA	4.10	7.50	1350	0.05	5x	2.0x
SiC	3.10	3.0	2000	0.02	12.5x	0.8x