

ABRASOR[®]

XJ50 Series Rubber Vibration Joint



Wear Life
Redefined.

The New Benchmark of Expansion Joint Performance

Manufactured in Australia using the highest quality, abrasion resistant rubber compounds, Abrasor expansion joints are designed to deliver consistently longer service life than conventional alternatives.

We don't take shortcuts when manufacturing Abrasor. Each hose is deliberately over-engineered to withstand the harshest mining conditions and continuous high-wear service. Operating under an ISO 9001 certified quality management system, every Abrasor hose is manufactured, inspected, and tested to strict, documented standards ensuring consistent build quality, predictable performance, and maximum service life in the field.

This combination of proven materials, controlled processes, and manufacturing scale provides confidence that Abrasor delivers genuine, measurable wear life reducing changeouts, downtime, and total cost of ownership.



Superior Materials

Our exclusive Abrasatech compound is one of the lowest abrasion loss compounds used in expansion joint applications worldwide. We only select the most premium quality materials for our manufacturing process.



ISO9001 Quality System

ISO9001 approved quality management system ensures less variation, meaning fewer failures and longer, reliable service life.



Manufacturing Capacity

We have one of the largest hose manufacturing capacities in the country, an extensive mandrel inventory, and full in-house production control ensuring repeatable quality across every hose we produce.

XJ50-SERIES RUBBER VIBRATION JOINT

ABRASOR[®]

Abrasor XJ50 Series Rubber Vibration Joints are designed for superior performance in high pressure and or high abrasion slurry piping applications. Commonly used in high stress areas of mining plants, Abrasor expansion joints are constructed to *reduce or eliminate noise, vibration, misalignment, offset, and thermal expansion in piping applications*

Built around our exclusive Abrasatech wear liner, Abrasor delivers industry leading abrasion loss performance, significantly extending service life in severe duty applications. Manufactured in Australia, Abrasor is the product of choice for mine sites across the world.



TECHNICAL SPECIFICATIONS

Hose size	DN25 – DN1200
Length	Custom to suit application
Pressure rating	-100kPa - +8000kPa
End connections	Fixed flange Swivel flange (beaded) Plain
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

Inner Liner	ABRASATECH (for high wear slurry) QUARRYTECH (for fine sands slurry) ROCKTECH (for large rock slurry) NITRILE (for slurry containing hydrocarbons) FLOWTECH (for high temp or acidic slurry) BUTATECH (for high acidic media) HYPATECH (for high acidic or high temp media)
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 LINER THICKNESS	MAX LINER THICKNESS	VACUUM RATING	STANDARD WORKING PRESSURE		MAX WORKING PRESSURE		SAFETY FACTOR
DN	mm	mm	mm	%	kPa	PSI	kPa	PSI	Ratio
50	50.8	6	6	100	1000	145	8000	1160	4:1
80	76.2	6	9	100	1000	145	8000	1160	4:1
100	101.6	6	12	100	1000	145	8000	1160	4:1
125	127	6	12	100	1000	145	8000	1160	4:1
150	152.4	6	12	100	1000	145	8000	1160	4:1
200	203.2	6	12	100	1000	145	8000	1160	4:1
250	254	9	15	100	1000	145	8000	1160	4:1
300	304.8	9	19	100	1000	145	6000	870	4:1
350	355.6	9	19	100	1000	145	6000	870	4:1
400	406.4	12	19	100	1000	145	5000	725	4:1
450	457.2	12	19	100	1000	145	4000	580	4:1
500	508	12	19	100	1000	145	4000	580	4:1
550	558.8	12	19	100	1000	145	4000	580	4:1
600	610	12	19	100	1000	145	4000	580	4:1
650	660.4	15	19	100	1000	145	2500	363	4:1
700	711.2	15	19	100	1000	145	2500	363	4:1
750	762	15	19	100	1000	145	2500	363	4:1
800	812.8	15	25	100	1000	145	2500	363	4:1
850	863.6	15	25	100	1000	145	2500	363	4:1
900	914.4	15	25	100	1000	145	2500	363	4:1
950	965.2	15	25	100	1000	145	2500	363	4:1
1000	1016	18	30	100	700	102	2500	363	4:1
1050	1066.8	18	30	100	700	102	2500	363	4:1
1100	1117.2	18	30	100	700	102	2500	363	4:1
1150	1168.4	18	32	100	700	102	2500	363	4:1
1200	1219.2	18	32	100	700	102	2500	363	4:1

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. Standard liner thickness is based on a high abrasion slurry application. For non-abrasive application a 3mm liner will be suitable