Polyguard INDUSTRIES

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High-Performance Polyurethane-Lined Equal Tee Spool



Polygaurd polyurethane-lined spools are manufactured using a high-performance polyurethane material developed with German technology and produced in accordance with Australian standards. This premium solution incorporates proprietary technology to deliver exceptional performance in highly aggressive and demanding operating environments.

These spools are commonly used in slurry transfer applications, including mineral processing plants, oil sands pipelines, concentrate pipelines, tailings pipelines, and dredging operations. The internal polyurethane lining provides superior protection against corrosion, wear, and scaling when transporting fluids containing abrasive solids under high-pressure conditions.

The specially formulated polymer offers outstanding durability in severe slurry service applications. It is suitable for both turbulent and non-turbulent flow conditions and effectively resists wear caused by small abrasive particles (erosion) as well as large particles that create cutting and gouging effects. The lining performs reliably across a wide range of slurry velocities, including high-velocity applications exceeding 10 m/s.

Additional benefits include operation across a broad temperature range, excellent resistance to hydrolysis, compatibility with a wide variety of process fluids, and complete liner integrity through a chemically bonded lining system. The material also features a very low friction-loss coefficient, eliminates the need for

Technical Specifications

Pipe size	DN50–DN1700 Non-standard sizes also available.
Pipe Length	0.15m to 18m long.
Design codes	Standard: ASME B31.3, ASME B31.4, AS4041 Other requirements also available upon request
Pipe types	SMLS, ERW, LSAW, DSAW, SSAW/HSAW
Pipe specifications	Standard: API 5L, ASTM A53/A106, API 5CT Other standrads also available upon request
Pressure rating	As per design code
Temperature rating	Based on internal lining system selected
End connections	Plain end, Fixed Flanged, Swivel flange, Rolled or Cut Grooved, Threaded, Fully welded and Custom
Flange types	AS2129, ASME B16.5, ASME B16.47, AWWA C207, AS4087, BS EN 1092, BS3293, JIS B2220, SANS 1123, DIN ISO 7005
Groove types	AWWA C606 OGS, Victaulic AGS
Special Thread types	BSP, NPT, AP

Material Specifications

Pipe material	All grades of Carbon steel, Stainless steel SS304, SS316
External coating	Uncoated, HDG and painted as per project requirement.

Internal Lining Specifications

Polygaurd **highperformance polyurethane**	High-performance polyurethane liner system Suitable for turbulent and non-turbulent slurry regimes Suitable for small and large particle slurry types Suitable for slurry velocities over to 10m/s. Suitable for straights various angle wear. Suitable for bends/fttings (medium 10–45° imp. angle wear) Strong adhesion to steel shell (chemically bonded) Suitable for long-term immersion (hydrolysis-resistant) Compatible with most carrier fuids and reagents. Very low wet friction coefficient (smooth surface) Resistant to dissolved O 2 Temperature range (wet): +0 to +70°C Temperature range (dry): -40 to +80°C