

Polyurethane Foam (PUF)



ShreeFoam rigid polyurethane foams have been successfully used for many years in the oil and gas industry for service temperatures of up to 110°C. This material is resistant to water ingress, provides much better insulation values than many other insulation materials and also offers structural support of the pipeline due to its high compressive strength. A polyurethane is polymer composed of a chain of organic units joined by carbamate (urethane) links.

Features

- Durable
- Pre-Fabricated and ready to use
- Fire retardant
- Construction friendly
- Sawing and Shaping not required at site
- Available in various density and dimensions as per customer requirement
- Excellent Thermal conductivity

Properties

S.no	Characteristics	Standard Reference	Acceptance Criteria
1.	Bulk density	ASTM D1622/ IS-11239	35 -40 kg/m ³
2.	Thermal conductivity	ASTM C 177	Mean 10°C - 0.022 W/mK max
3.	Compressive strength @ 10 % deformation	IS 11239 part 10 / ASTM D 1621	Min 200 Kpa
4.	Water Vapour Transmission	ASTM E 96 / IS 12436	Max 0.8 (g/h-m ²),
5.	Horizontal Burning	IS 12436 Part 12	Max 125 mm,
6.	pH Value	ASTM C 871	6-7
7.	Closed Cell content	ASTMD2856/IS 12436 Part 5	Min 90%
8.	Dimensional stability	IS 11239 part 2 / ASTM D 2126	100°C ± 2°C (24 hr) = ±2%, -40°C ± 2°C (24 hr) = ±1%,