MDI vs TDI

High performance MDI and TDI urethanes have been used in pigging applications for decades. Apache can produce either option in our Canadian manufacturing facility, allowing us to provide you with the best product for your specific application.

Apache Reliathane MDI has superior performance in these areas.

Rebound
Rebound refers to the ability of the Pig to absorb impacts and then return to its original shape. Superior rebound allows the pig to maintain its effectiveness during operation, especially when it encounters obstacles or changes in the pipeline diameter.

Impingement Abrasion
Impingement abrasion is the wear or damage caused by the impact of particles or fluids against a Pigs surface. Superior resistance will help prevent the pig from wearing down too quickly, extending its longevity.

Hydrolysis Resistance
Hydrolysis resistance refers to a Pigs ability to withstand degradation when exposed to water or moisture over time. Superior hydrolysis resistance ensures that the pig maintains integrity and performance.

Hysteresis
Hysteresis refers to heat buildup that occurs when a Pig is subjected to repeated deformation (such as stretching or compressing). Superior resistance to hysteresis reduces the excessive heat buildup inside the Pig resulting in improved performance and longevity.

Low Temperature
Low temperature performance refers to how well a Pig maintains properties such as flexibility when exposed to subzero conditions. Superior low temperature performance ensures the Pig maintains flexibility and can continue to seal effectively while navigating through the pipeline.

Apache Reliathane TDI offers the best performance in this area.

High Temperature
High temperature performance refers to how well a Pig performs when exposed to temperatures in the 80-90°C range. Better resistance helps the pig maintain properties such as flexibility and resist thermal degradation.

Apache High Temperature (HT) Reliathane is available and specifically formulated for superior performance in high temperature applications ranging from 90-150°C

Check out our videos!

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