Thordon Material Selection Guide for Pump Bearing Applications

Parameter	Thordon XL	Thordon SXL	Thordon Composite (GM2401)	ThorPlas
	THORDON GRADES			
Description	Elastomeric Polymer Alloy	Elastomeric Polymer Alloy	Elastomeric Polymer Alloy	Engineered Thermoplastic
Temperature Limit	60°C (140°F)	60°C (140°F)	60°C (140°F)	80°C (176°F)
Suitable for Dry Start Up	NO	YES	NO	YES
Resistance to Acids	Limited	Limited	Limited	Fair to Good
Resistance to Alkalies	Limited	Limited	Limited	Fair to Good
Suitable for Hydrocarbons	YES	YES	YES	YES
Abrasion Resistance	Good	Better	Best	Acceptable
Shaft Sleeve Material	Bronze, Stainless Steel	Bronze, Stainless Steel	Ni-Cr-B Recommended	Bronze, Stainless Steel
Lubrication	Water, Seawater, Most Fluids (pH 5-10)	Water, Seawater, Most Fluids (pH 5-10)	Water, Seawater, Most Fluids (pH 5-10)	Water, Most Fluids (ph 3-11)except Chlorinated Solvents and Strong Acids and Bases
Remarks	Good balance between abrasion resistance and low friction	Lowest friction; Suitable for dry start-up; Good abrasion resistance	For use in highly abrasive operating environments	Good choice for low abrasion applications and for use at temperatures and in chemical solutions unsuitable for Thordon elastomers

This is a general guide for technical reference only. Critical applications that are close to pressure or temperature limits, or subjected to non-standard environments should also be reviewed and approved by Thordon Bearings.