

THORDON GRADES					
Parameter	SXL	Composite (GM2401)	XL	ThorPlas-Blue	ThorPlas-White
Description	Elastomeric Polymer Alloy	Elastomeric Polymer Alloy	Elastomeric Polymer Alloy	Engineered Thermoplastic	Engineered Thermoplastic
Temperature Limit	60°C (140°F)	60°C (140°F)	60°C (140°F)	80°C (176°F)	80°C (176°F)
Suitable for Dry Start-up	YES**	NO	NO	YES**	YES**
Resistance to Acids	Limited	Limited	Limited	Limited	Good
Resistance to Alkalies	Limited	Limited	Limited	Limited	Fair
Suitable for Hydrocarbons	YES	YES	YES	YES	YES
Abrasion Resistance	Very Good	Excellent	Good	Acceptable	Acceptable
Installation Clearance	Medium to Low	Higher	Medium	Lowest	Lowest
Shaft Sleeve Material	Bronze, Stainless Steel	Ni-Cr-B Recommended	Bronze, Stainless Steel	Bronze, Stainless Steel	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, Seawater, Most Fluids (pH 3-11)	Potable Water
Remarks	Low friction. Suitable for dry start-up. Good abrasion resistance.	For use in highly abrasive operating environments.	Good balance between abrasion resistance and medium level of friction.	Lowest friction. Good for low abrasion applications. For use at temperatures and in chemical solutions unsuitable for Thordon elastomers.	NSF International Certification for NSF/ANSI 61 Drinking Water System Components. Accepted Material by CFIA.   Certified to NSF/ANSI 61 Certified to NSF/ANSI 31  WRAS Material Approval

\*\* For dry start-up times longer than 30 seconds, please contact Thordon Engineering for grade selection.

Note: For Nuclear use, Quality Control certificates including certified test reports can be supplied.  
Thordon Bearings Inc. operates under the provision of 10 CFR21.

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 be reviewed and approved by Thordon Engineering.

Please contact Thordon at (905) 335-1440 or at [info@ThordonBearings.com](mailto:info@ThordonBearings.com)

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