

## General Material Selection Guide for Various Application Parameters

Lubrication / Operating Pressure	Recommended Thordon Grades		
	★★★★★	★★★★	★★★
<b>Dry (sealed or minimal abrasives)</b>			
0-10 MPa (0-1450 psi)	SXL	ThorPlas	
10-15 MPa (1450-2175 psi)	HPSXL	ThorPlas	
15-31 MPa (2175-4500 psi)	HPSXL TRAXL	ThorPlas	
31-55 MPa (4500-8000 psi)	HPSXL TRAXL		
<b>Dry (abrasives present)</b>			
0-5.5 MPa (0-800 psi)	XL	SXL	ThorPlas
5.5-10 MPa (800-1450 psi)	SXL	ThorPlas	
10-15 MPa (1450-2175 psi)	HPSXL	ThorPlas	
15-31 MPa (2175-4500 psi)	ThorPlas		
<b>Wet (sealed or minimal abrasives)</b>			
0-10 MPa (0-1450 psi)	SXL	ThorPlas	
10-15 MPa (1450-2175 psi)	HPSXL	ThorPlas	
15-31 MPa (2175-4500 psi)	HPSXL TRAXL	ThorPlas	
31-55 MPa (4500-8000 psi)	HPSXL TRAXL		
<b>Wet (abrasives present)</b>			
0-3 MPa (0-500 psi)	GM2401	SXL	ThorPlas
3-10 MPa (500-1450 psi)	SXL	ThorPlas	
10-15 MPa (1450-2175 psi)	HPSXL	ThorPlas	
15-31 MPa (2175-4500 psi)	ThorPlas		

*Note: The maximum pressures given for the various products are based on maximum dynamic working pressures for intermittent, limited motion. For applications involving continuous rotary motion, PV limits of the materials will significantly reduce the maximum allowable pressures stated above.*

**This is a general guide for technical reference only. Currently, all ThorPlas applications should be reviewed with Thordon Engineering. Other critical applications that are close to pressure or temperature limits, or subjected to non-standard environments should also be reviewed and approved by Thordon Engineering.**

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