

General Material Selection Guide for Various Application Parameters

Lubrication / Operating Pressure	Recommended Thordon Grades		
	★★★★★	★★★★	★★★
Dry (sealed or minimal abrasives)			
0-10 MPa (0-1450 psi)	SXL / PT80	ThorPlas-Blue	
10-15 MPa (1450-2175 psi)	HPSXL	ThorPlas-Blue	
15-45 MPa (2175-6525 psi)	ThorPlas-Blue	HPSXL TRAXL	
45-55 MPa (6525-8000 psi)	HPSXL TRAXL		
Dry (abrasives present)			
0-5.5 MPa (0-800 psi)	XL	SXL/PT80	ThorPlas-Blue
5.5-10 MPa (800-1450 psi)	SXL / PT80	ThorPlas-Blue	
10-15 MPa (1450-2175 psi)	HPSXL	ThorPlas-Blue	
15-45 MPa (2175-6525 psi)	ThorPlas-Blue		
Wet (sealed or minimal abrasives)			
0-10 MPa (0-1450 psi)	SXL / PT80	ThorPlas-Blue	
10-15 MPa (1450-2175 psi)	HPSXL	ThorPlas-Blue	
15-45 MPa (2175-6525 psi)	ThorPlas-Blue	HPSXL TRAXL	
45-55 MPa (6525-8000 psi)	HPSXL TRAXL		
Wet (abrasives present)			
0-3 MPa (0-500 psi)	GM2401	SXL / PT80	ThorPlas-Blue
3-10 MPa (500-1450 psi)	SXL / PT80	ThorPlas-Blue	
10-15 MPa (1450-2175 psi)	HPSXL	ThorPlas-Blue	
15-45 MPa (2175-6525 psi)	ThorPlas-Blue		
Potable Water (wet or near dry)			
0-3 MPa (0-500 psi)	ThorPlas-White		
3-10 MPa (500-1450 psi)	ThorPlas-White		
10-15 MPa (1450-2175 psi)	ThorPlas-White		
15-45 MPa (2175-6525 psi)	ThorPlas-White		

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. Critical applications that are close to pressure or temperature limits, or subjected to non-standard environments should be reviewed and approved by Thordon Engineering.