

Xylan coatings resist chemicals and corrosion...



...provide low coefficient of friction...



...deliver constant and reproducible torque...



...and have been chosen by engineers since1969.

Xylan® 1000 Series Dry-film Lubricants Extreme Performance Coatings



General Description

Whitford's first product was Xylan 1010, a coating which enjoyed immediate acceptance as an engineering material. Today, Xylan 1010 is still the most versatile, most dependable, most successful industrial fluoropolymer coating in the world.

Xylan 1000 Series

The Xylan 1000 Series, with a variety of color choices, is ideal for (but not limited to) industrial and mechanical applications. Whitford has waterreducible, low-VOC systems similar to the coatings described below; dry-film properties are comparable.

Xylan 1006 contains the highest percentage of PTFE lubricant of the Series.

Xylan 1010 provides the optimum combination of low friction, wear resistance and high-temperature release.

Xylan 1014 alters the ratio of PTFE lubricant to bonding polymers to achieve a harder, more abrasion-resistant coating with the least sacrifice in frictional values.

Xylan 1052 contains a number of high pressure (EP) lubricating solids selected to increase the load-bearing capability and life of the basic coating while maintaining an extremely low coefficient of friction.

Xylan 1070 contains corrosion inhibitors for better corrosion resistance. It excels in applications requiring a dry-film lubricant effective against a broad spectrum of chemicals and corrosives.

Xylan 1088 is a reinforced version of Xylan 1010, for added abrasion resistance.

Property	Units	Value
Tensile strength	psi (N/mm ²)	2,000 - 4,000 (14 - 28)
Elongation	%	35 - 50
Water absorption	%	0.03
Service temperature		
Continuous	°F (°C)	500 (260)
Intermittent	°F (°C)	550 (287)
Pencil hardness		H - 6H
Dielectric strength	V/mil (V/µm)	1.200 - 2.000 (30 - 50)
Coefficient of friction		0.02 to 0.10
Wear resistance	in ³ x min x 10-10	
(K-factor US Unit)	lb x ft x hr	6 - 8
Wear resistance	mm ³ x 10-8	
(K-factor SI Unit)	Nxm	12 - 16

Substrate Information

Xylan 1000 Series coatings demonstrate excellent adhesion to a variety of materials. Simple test procedures will determine if Xylan coatings will bond to a new or untried substrate material.

Chemical Resistance

The chart presented below is intended to be used only as a guide. Your choice of Xylan coating must be subjected to your test procedures prior to its use in any chemical environment.

All tests were conducted at room temperature except as noted. All test results assume a pinhole-free coating film.

100 30 5 100 36 15 2 pH 2 pH 25	1000 4000 1000 24 24 150 300	None None None None Slight
30 5 100 36 15 2 pH 2 pH	4000 1000 24 24 150	None None None Slight
5 100 36 15 2 pH 2 pH	1000 24 24 150	None None None Slight
100 36 15 2 pH 2 pH	24 24 150	None None Slight
36 15 2 pH 2 pH	24 150	None Slight
36 15 2 pH 2 pH	24 150	None Slight
15 2 pH 2 pH	150	Slight
15 2 pH 2 pH	150	Slight
2 pH 2 pH		
2 pH	300	
		None
	300	None
	1500	None
35	24	None
Saturated solution	120	None
2	24	None
100	336	Slight
12.5 pH	150	Slight
9.5 pH	300	None
9.5 pH	300	Slight
		- 0 -
100	1500	None
		None
200 B 30 B 201/2	Contract of the second s	None
		None
100	1000	110110
100	1500	None
		None
A STATE OF A	A 10 10 10 10 10 10 10 10 10 10 10 10 10	None
		None
100		None
		None
		None
		None
100	1000	NONE
100	1500	None
		None
	1500	
100		Nono
100 79% CH ₄ ,6%	24	None None
	100 100 100 100 100 100 100 100 100 100	100 1500 100 1500 100 1500 100 1500 100 1500 100 1500 100 1500 100 1500 100 1500 100 1500 100 1500 100 120 100 120 100 1500 100 1500 100 1500 100 1500



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