



Bench Test Performance Comparison of Solid Lubricants

Performance comparison of liquid solid lubricants is shown in standard lubricant bench test results. Lubricant bench tests are not absolute. Actual evaluation in the intended lubricant application will show the true value of liquid solid lubricants. All tests were conducted by a reliable third party and run in strict compliance with ASTM standards with no modifications in test procedures. Data presented here is statistically significant and typical.

Solid Lubricant	Four Ball Wear Scar, mm (ASTM D-4172)		Four Ball Extreme Pressure (ASTM D-2783)		Falex Pin & Vee Block		
	15 kg	40 kg	Weld Load, kg	Load Wear Index	Wear (ASTM D-2670) Number of teeth	Extreme Pressure (ASTM D-3233) Failure Load, lb.	Kinetic Friction Coefficient (Falex Method)
Reference Base Oil No Solid Lubricants	0.678	1.060	126	17.2	Failed 350 lb. break-in load @ 1-2 min. into test	750	0.159
PTFE	0.678	0.890	200	27.6	10	4250	0.094
MoS ₂	0.630	0.805	250	24.3	8	4375	0.114
Graphite	0.675	0.855	160	18.7	78	1250	0.123
Boron Nitride	0.580	0.760	200	25.9	9	4550	0.105
CERFLON® CER-150SN	NA	0.74	400	38.4	6	4500	0.092

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