

Applications

GD-525 Moly Grease is a synthetic, high temperature grease designed for all types of shaft splines. For motorcycles, use it also to lubricate u-joints, swing arms, starter drive gear, bushings, pins, cable barrels, levers, etc. For industry, GD-525 is a general purpose EP machinery grease, and a grease for the "fifth wheel" and king pin on tractors; trailer hitch ball. (GD-525 is not a lubricant for wheel bearings and chains.).

GD-525 is compatible with elastomers (seals, o-rings, etc.)

The properties of GD-525 make it an excellent lubricant for action points of firearms.

Benefits

GD-525 Moly Grease provides uniform and durable boundary lubrication under extreme pressure to prevent wear on the two mating steel surfaces over a wide temperature range. With a high dropping point, it will not run off from heat. It is adhesive to prevent wash out and sling off. Moly is a solid film lubricant with a low coefficient of friction and an affinity for steel and other metals. The moly decreases friction of the two counter-moving sliding surfaces by filling in microscopic pores of the metal surfaces and plating out over the surface. The fluid component of GD-525 is a blend of synthetic hydrocarbon base stocks, commonly called "synthetic oil" (Groups IV & V). Hydro processed mineral oil or a mineral/synthetic oil blend is not used. The synthetic oil in the grease has a higher tolerance for heat than mineral oil, which means GD-525 resists oxidation and evaporation; the synthetic oil creates a stronger film of lubricant than mineral oil. In combination, the components of GD-525 provide exceptional capability to *reduce friction and wear* over a long period of time.

Typical Observations

NLGI grade, ASTM D 217	No. 2-1/2				
Penetration.....	256				
Gel.....	Inorganic				
Dropping Point, ASTM D 2265.....	Above +585°F (+308°C)				
Fluid.....	Synthetic				
Viscosity Index D 2270.....	139				
Pour point, °C ASTM D 97.....	-18°C (0°F)				
Flash point, Cleveland Open Cup, ASTM D 92....	+460°F (+238°C)	Brand A	Brand B	Brand C	Brand D
Fretting wear, mg, ASTM D 4170.....	0.60 *	02.8	55.4	43.8	98.5
Water spray off, %, ASTM D 4049.....	6.30 *	56.3	---	---	---
Evaporation loss, %, ASTM D 972.....	0.23 *	0.38	---	---	---
(24 hrs @ +200F)					
Oil Separation, %., ASTM D 4425.....	43.10 *	69.66	---	---	---
(6 hrs @ +50°C)					
Molybdenum Disulfide, %.....	30.00				

NLGI: National Lubricating Grease Institute; ASTM: American Society for Testing Materials

*The lower number is better for all tests.

How to Use

For splines, clean off old lubricant with a solvent. Let dry. Burnish ("rub") GD-525 on and in the metal surfaces with a clean, lint-free cloth. Leave a thin coating of grease on the surface. Work it into the crevices of u-joints and other mechanical components. Also, leave a thin coating of grease on the surfaces.

Packaging

Container size	Part Number	
2 oz jar	GD-525-02	Other sizes of containers are available.
4 oz jar	GD-525-04	Containers are available in case quantities.
8 oz jar	GD-525-08	

Warranty and Safety

Guard Dog warrants GD-525 to conform to published typical observations. GD-525 is safe to use when normal precautions are taken, as with any lubricating product. A Safety Data Sheet is available upon request.

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