

TECHNICAL INFORMATION GUIDE

LC-300 SOLID FILM LUBRICANT HEAT CURING

**SERIES V765 LEAD FREE
MEETS SAE SPEC AS5272C TYPE I (FORMERLY MIL-L-46010 TYPE I)**

SANDSTROM
PRODUCTS COMPANY

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DESCRIPTION

Sandstrom LC-300 Dry Film Lubricant is a lead free lacquer-like coating containing molybdenum disulfide and corrosion-inhibiting pigments. This **Heat Curing** material prevents corrosion, galling, seizing, and fretting. It is a low-friction coating which exhibits long wear life when operated at -320°F to +400°F under loads exceeding 100,000 psi.

LC-300 should be applied in place of **Sandstrom 9A** where maximum wear life and corrosion protection from a dry film lubricant are required on metals which may be adversely affected by 9A's 1 hour @ 400°F bake cycle.

Once **Sandstrom LC-300** has been heat cured, it is virtually unaffected by atmospheric and fretting corrosion, solvents, acids, oils, and degreasers, and is not resoftened again at elevated temperatures.

LC-300 may be applied to a wide variety of surfaces by spraying or dipping. Complete application instructions are on the reverse of this sheet.

OUTSTANDING FEATURES/BENEFITS

Excellent Corrosion Protection, Chemical Resistance, and Long Wear Life are its outstanding characteristics.

SANDSTROM LC-300 CONTAINS NO LEAD OR GRAPHITE

TYPICAL USES

Sandstrom LC-300 is an excellent solution to the problem of **lubricating parts:**

- Where "clean operation" is desired (**LC-300** will not collect dirt and debris as do grease and oils)
- Where parts may be subjected to frequent disassembly
- Where a protective coating and sacrificial break-in lubricant are needed
- Where fretting and galling is a problem (such as splines, universal joints, and keyed bearings)
- Where easy release is desired (such as acme nuts and screws and PVC molds)
- Where metallurgical properties are adversely affected by baking at temperatures higher than 300°F
- That will be operated in corrosive atmospheres
- That may be stored for long periods
- Which are seldom lubricated once they leave the factory and where permanent lubrication is desired
- Where operating pressures exceed the load-bearing capacities of ordinary oils and greases

COMPOSITION AND PHYSICAL PROPERTIES

Net Weight per gallon	10.20 lbs ± .2 lb	Vehicle type	Modified Vinyl
Solids content	41.0% ± 1% (By Wt.)	Lubricative pigment	Molybdenum Disulfide
Viscosity	80-95 sec / #1 Zahn	Color	Flat Dark Gray
Flash point	43°F ± 2°F Setaflash	Shelf life	1 year from date of manufacture
Operating temperature range	-320°F to +400°F	Specifications	SAE Spec AS5272C Type I PRI QPL AS5272 type 1
Wear life	298 minutes average ASTM D2625A	Corrosion protection	Sulfurous Acid-Salt Spray 4 cycles with no effect * Fed-STD-791c Method 5331.1
Load carrying capacity	2750 lbs. * ASTM D2625B	ASTM B117	1000 hours*
		MIL-DTL-16232 type M or Z class 3	

*Tests halted before failure