

**FEL-PRO**

Information Bulletin

from CHEMICAL PRODUCTS DIVISION

**C-300[®]
AIR-DRYING
SOLID FILM
LUBRICANT****DESCRIPTION**

FEL-PRO C-300 is a molybdenum disulfide based solid film lubricant. It is a heavy duty lubricant used for general plant maintenance, metal working trade, machinery manufacturers, and by manufacturers of military and commercial jet engines. C-300, in aerosol form, is an easy-to-use maintenance lubricant.

Use for high temperatures, for heavy static loads, and where dirty and dusty environments dictate a dry lubricant - one which won't attract dirt.

For continuous use in sliding friction, use at temperatures up to 750°F. For anti-seize lubrication, C-300 functions up to 2400°F.

USES

MAINTENANCE - Thread lubricant, dry bearing surfaces, slides, guides, pins, conveyor chains, exposed "dry" gears, flexible shafts, press fits, valve stems, shaft/packing wear-in, "easy-off" coating for boiler exhaust surface deposits, power transmission couplings.

PRODUCTION - Swaging, metal forming, cold extrusion, warm extrusion, cold and warm heading, "dry" lubricant for mechanical linkages. **AEROSPACE** - Gas turbine engine blades, valves, bearings, vacuum and radiation applications. **AUTOMOTIVE, HEAVY EQUIPMENT** - Cam wear-in, brake mechanisms, cables, gear couplings. **ELECTRICAL** - Circuit breakers, rheostats, switches. **MARINE** - Steam valve stems, dampers, winches and blocks, numerous boiler and engine room applications. **PETROCHEMICAL** - Valves, boilers, flanges, dampers.

DIRECTIONS

C-300 may be applied by brushing, dipping, or spraying directly to clean metal surfaces. Prior surface treatments - common metal protecting conversion coatings - can be used to enhance corrosion resistance and wear life.

TYPICAL SURFACE TREATMENTS compatible with C-300

Aluminum and Magnesium	anodize coatings
Carbon Steel	phosphate coating
Stainless Steel	passivated with acid and dichromate
Titanium	phosphate/fluoride treatment

AIR DRYING - Generally 1 hour at room temperature or less time if parts are warm or heated.

BAKING - Any of the following cure schedules will cause the C-300 film to thermoset - making it fluid and solvent resistant: 1/2 hour at 500°F, 1-1/2 hours at 450°F, or 3-1/2 hours at 375°F.

FLUID RESISTANCE - An air-dried film of C-300 can be softened and dissolved by organic solvents, oils, etc., but it will withstand water and water solutions. Oven cured films will not dissolve in most solvents and fluids.

SPECIFICATIONS

PROPERTIES (Description)	TYPICAL VALUES
General description	Black paint - mixture of solid lubricants, resins and solvents
Solids (non volatiles)	50% by weight
Viscosity	420 cps (centipoise), approximately
Specific Gravity	1.3
Weight per gallon	10.8 lbs.
Flash Point (closed cup)	105°F.
Coverage (.0007" dry film)	600 square feet per gallon

Fel-Pro Incorporated, Chemical Products Division, 7450 N. McCormick Blvd., P.O. Box 1205, Skokie, Illinois 60076-8205, U.S.A.
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Manufacturers of Industrial Compounds for Maintenance and Production.

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SPECIFICATIONS (continued)

PROPERTIES (Description)	TYPICAL VALUES
Cure schedule (if solvent resistance needed)	30 minutes at 500° F
Friction coefficient06 to .12
Recommended dry coating thickness0003" to .0012"
Solvents for thinning	Toluene, chlorothane, xylene

SHELF LIFE

C-300 does not deteriorate in storage. Fel-Pro guarantees this product for 2 years in bulk (unopened) and 1 year in aerosol cans.

CAUTION

COMBUSTIBLE! Contains petroleum distillate and toluene. Aerosol can contains methylene chloride and isopropyl alcohol. Vapor may be harmful, absorption through skin may be harmful, breathing of vapor may cause irritation. Avoid contact with eyes and skin. Use only with adequate ventilation. Avoid prolonged or repeated breathing of vapor or spray mist. Keep away from heat, sparks, and open flame. Do not take internally. In case of spillage, absorb and dispose of in accordance with local applicable regulations. Keep container tight and upright to prevent leakage. Keep container closed when not in use. **FIRST AID:** In case of skin contact, wash thoroughly with soap and water; for eyes, flush immediately with plenty of water for 15 minutes and call a physician. Remove and wash contaminated clothing before reuse. If inhaled, remove to fresh air. If swallowed, CALL A PHYSICIAN IMMEDIATELY. DO NOT induce vomiting. **KEEP OUT OF REACH OF CHILDREN!**

PACKAGING

PART NUMBER	NET CONTENTS	TYPE CONTAINER	UNITS/CASE	SHIPPING WT/CASE
51026	16 oz (454g)	Aerosol	12	13 lb
51028	1½ lb (.7kg)	Can	12	21 lb
51029	10 lb (4.54kg)	Can	2	24 lb
51030	50 lb (22.6kg)	Pail	1*	55 lb

*Considered Cases for pricing purposes. Not Packaged in cases.

OTHER LUBRICANT PRODUCTS

C5-A	General purpose, copper based anti-seize
C-100	Heavy duty, with molybdenum disulfide, anti-seize
C-102	Heavy duty, no molybdenum or lead, anti-seize lubricant
C-200	Bake-on solid film lubricant
C-601	Graphite, MIL T5544, anti-seize paste
C-638	Zinc, MIL T22361, anti-seize paste
C-652	Bake-on, graphite-free, solid film lubricant
C-670	65% molybdenum disulfide lubricant
N-1000	High Purity, traceable, copper anti-seize
N-5000	High Purity, traceable, nickel anti-seize
FOOD GRADE "AA" ANTI-SEIZE	"Clean" U.S.D.A. authorized food contact anti-seize lubricant
FOOD MACHINERY E.P.	U.S.D.A. authorized food contact grease
MULTI-E.P.	General purpose bearing grease
NICKEL-EASE	Nickel based anti-seize

Except as expressly stipulated, Fel-Pro's liability, expressed or implied, is limited to the stated selling price of any defective goods.

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