



POLY-GUARD® FDA

SYNTHETIC FOOD GRADE OIL WITH PUROLEC™

Poly-Guard® FDA is a synthetic, food-grade lubricant that is NSF H1 registered for incidental food contact and delivers superior wear protection with a long service life. It is recommended for use in compressors, pumps, gearboxes, bearings, hydraulic systems, blowers, and almost any other equipment in food or pharmaceutical processing facilities requiring lubricating oil.

Poly-Guard FDA's formulation combines premium synthetic base oils with proprietary Purolec™ additive technology to ensure exceptional performance. Using Poly-Guard FDA helps minimize lubricant inventory, reduce maintenance, improve equipment efficiency, extend equipment life, and lower overall operating costs.

Poly-Guard FDA is undyed and available in ISO viscosity grades 15 through 680.



Nonfood Compounds
H1



PROPRIETARY ADDITIVE TECHNOLOGY - PUROLEC™

Purolec™ stable additive technology reduces wear, provides outstanding rust and corrosion protection, and fortifies the oil against heat degradation without compromising food safety. It is non-toxic, non-allergenic and meets NSF H1, Halal and Kosher requirements for food and pharmaceutical applications.

PERFORMANCE ADVANTAGES

SUPERIOR WEAR PROTECTION - Protects bearings, compressors, pumps, and gears far beyond the capability of conventional food-grade lubricants.

EXCELLENT DEMULSIBILITY - Rapidly separates from water, allowing easy drainage from the reservoir.

INCREASED EFFICIENCY - Extremely low coefficient of friction reduces parasitic loss, saving energy.

OUTSTANDING OXIDATION RESISTANCE - Extends lubricant life and resists varnish formation.

EXCELLENT CORROSION PROTECTION - Forms an ionic bond on metal surfaces, displacing water with rust-inhibiting chemistry.

VIBRATION REDUCTION - Provides strong bearing lubrication with a robust oil film and an ability to micro-mend surfaces.

WIDE SEAL COMPATIBILITY RANGE - Compatible with common seal materials such as fluoroelastomers, neoprene, Buna-N (except high ACN), and silicone. Not recommended for use with EPDM or EPR elastomers.



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TYPICAL APPLICATIONS & INDUSTRIES

- Bearings
- Blowers
- Gearboxes
- Hydraulic systems
- Pumps
- Screw compressors
- Food processing
- Pharmaceutical
- Water treatment

CERTIFICATIONS

- NSF H1 – Registered for use in equipment where incidental food contact may occur
- Halal
- Kosher

TECHNICAL DATA

ISO Grade	15	22	32	46	68	100	150	220	320	460	680
Color	Amber	Amber	Amber	Amber	Amber	Amber	Amber	Amber	Amber	Amber	Amber
Relative Density @ 60°F/60°F, ASTM D1298	0.824	0.831	0.835	0.841	0.847	0.853	0.858	0.863	0.868	0.872	0.876
Viscosity @ 100°C, cSt	3.6	4.6	6.0	7.5	10.0	13.2	18.0	23.2	29.5	38.5	51.0
Viscosity @ 40°C, cSt	15	22	32	46	68	100	150	220	320	460	680
Viscosity Index ASTM D2270	120	127	136	130	131	130	131	130	126	128	130
Flash Point °C (°F), ASTM D92	221 (430)	193 (380)	234 (453)	245 (473)	238 (460)	243 (469)	229 (444)	229 (444)	226 (439)	229 (444)	221 (430)
Pour Point °C (°F), ASTM D97	-66 (-87)	-63 (-81)	-57 (-71)	-63 (-81)	-60 (-76)	-57 (-71)	-54 (-65)	-48 (-54)	-48 (-54)	-42 (-44)	-36 (-33)
Rust Test 4 hrs @ 60°C, DI H2O, ASTM D665A	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Rust Test 4 hrs @ 60°C, Sea H2O, ASTM D665B	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Copper Corrosion 3 hrs @ 100°C, ASTM D130	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Emulsion Characteristics @ 54°C, oil/water/emulsion-minutes, ASTM D1401	42/38/0-5	41/39/0-10	41/39/0-10	43/37/0-10	40/40/0-20	-	-	-	-	-	-
Emulsion Characteristics @ 82°C, oil/water/emulsion-minutes, ASTM D1401	-	-	-	-	-	42/38/0-10	41/39/0-10	42/38/0-10	42/38/0-15	41/39/0-20	42/38/0-25
Foaming Characteristics 3 sequences @ 24°C, 93.5°C, 24°C; tendency/stability (ml)-time to break (sec), ASTM D892	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0	0/0-0, 0/0-0, 0/0-0