

POLY-GUARD[®] FDA

High Performance FDA / USDA H-1 Oil



Beyond Synthetic™

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Poly-Guard[®] FDA is recommended for use in compressors, pumps, gear boxes, bearings, hydraulic systems, blowers or almost any other equipment in food processing or pharmaceutical plants requiring oil.

Poly-Guard[®] FDA is a superior anti-wear, long life, synthetic lubricant that is USDA H-1 approved and meets the FDA CFR Title 21 Section 178.3620(b) purity requirement. Poly-Guard[®] FDA reduces wear and keeps equipment cleaner, allowing for substantially longer oil drain intervals. Using Poly-Guard[®] FDA saves money, minimizes inventory, reduces maintenance, improves equipment efficiency and extends equipment life. It is available in ISO viscosity grades 15 through 680.

Purolec[®] additive technology makes the difference!

Synthetic oils enable Royal Purple to make superior FDA / USDA H-1 lubricants, but it is Royal Purple's advanced Purolec[®] additive technology that gives Royal Purple's lubricants their superior performance advantages.

Purolec[®] additive technology provides outstanding anti-wear properties while providing excellent rust and corrosion protection to all metals. Purolec[®] additive technology also fortifies the oil against the detrimental effects of heat, which causes oil to oxidize.

Performance Advantages:

- **Excellent Wear Protection**
Poly-Guard[®] FDA has superior anti-wear properties and provides superior protection to bearings, gears, etc.
- **Rapidly Separates from Water**
Poly-Guard[®] FDA rapidly and completely separates from water, which is easily drained from the bottom of the oil reservoir.
- **Longer Oil Life**
Poly-Guard[®] FDA has excellent oxidation stability that greatly extends oil change intervals while keeping equipment clean.
- **Multi-Temperature Performance**
Poly-Guard[®] FDA is stable at high temperatures and extremely fluid at low temperatures.
- **Excellent Corrosion Protection**
Poly-Guard[®] FDA protects ferrous and non-ferrous metals against rust and corrosion.
- **Lower Coefficient of Friction**
Poly-Guard[®] FDA saves energy.
- **High Purity**
Poly-Guard[®] FDA meets the FDA CFR Title 21 Section 178.3620(b) purity requirement and is USDA H-1 approved.
- **Compatible with Elastomers**
Poly-Guard[®] FDA has excellent compatibility with most elastomers.
- **Compatible with Other Oils**
Poly-Guard[®] FDA is compatible and can be mixed with other mineral oils and most synthetic oils. (It is not compatible with silicone or glycol synthetics.)
- **Environmentally Responsible**
Poly-Guard[®] FDA components are TSCA listed and meet EPA, RCRA and OSHA requirements. Poly-Guard[®] FDA extends oil drain intervals, eliminates premature oil changes, decreases the amount of oil purchased and disposed of and conserves energy.

Typical Properties*	ISO Grade										
	15	22	32	46	68	100	150	220	320	460	680
AGMA Grade	—	—	—	1	2	3	4	5	6	7	8
Viscosity											
cSt @ 40 °C	15	22	32	46	68	100	150	220	320	460	680
cSt @ 100 °C	3.6	4.7	6.0	7.7	10.0	12.7	16.5	20.9	27.0	33.8	48.8
SSU @100°F	82	114	164	235	349	517	782	1155	1690	2448	3616
SSU @ 210 °F	38	42	46	52	60	70	86	105	133	165	237
VI	115	137	133	134	131	122	116	111	112	108	123
Flash °F	400	405	450	450	485	445	480	480	475	475	480
Pour Point °F	-85	-80	-60	-55	-45	-45	-35	-25	-30	-15	-15
Corrosion Test											
Copper, 3 hrs. @ 100 °C	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a
Foam Tendency Seq. II	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
D-1401 Demulsibility											
(40/40/0/20 max)	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Pounds./Gallon	6.74	6.79	6.88	6.90	6.92	7.02	7.08	7.11	7.14	7.19	7.10
FZG Test	9	10	11	11	11	11	11	11	11	11	11
Four Ball EP Test, 20 kg.	0.35	0.35	0.33	0.32	0.30	0.32	0.32	0.31	0.32	0.30	0.30
TOST, hours	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000

*Properties are typical and may vary