

WearGuard™ D-A SYN 4000 Series is formulated with **ChemGuard™** diester additive technology system for use in rotary vane, sliding vane, and reciprocating compressors or vacuum pumps. Scheduled changes can be extended to as much as 4,000-8,000 hours for sump pumps and crankcases. This product is specially formulated with diester base oils for use in a wide variety of applications.

WearGuard™ D-A SYN 4100 & D-A SYN 4150 can be used for cylinder and frame lubrication in reciprocating compressors and vacuum pumps using the following gases:

Air	Ethylene	Methane	Propane
Butadiene	Natural Gas	Synthesis Gas	Carbon Monoxide
Carbon Dioxide (dry)	Helium	Hydrogen Sulphide (dry)	Nitrogen
Furnace (crack) Gas	Hydrogen	Sulphur Hexafluoride	

Nominal Operating Range is -15° C to 230° C (5° F to 445° F)

Applications

- Rotary Vane
- Reciprocating
- Sliding Vane
- Vacuum Pumps

Characteristics

- Outstanding thermal and oxidative stability
- Will not varnish or form carbon deposits
- Wide operating temperature range
- Built in detergency action
- Extended drain intervals reduce oil disposal, thus increasing cost effectiveness

Typical Properties

WearGuard™ D-A SYN 4000 Series	ASTM Method	WearGuard D-A SYN 4032	WearGuard D-A SYN 4046	WearGuard D-A SYN 4068	WearGuard D-A SYN 4100	WearGuard D-A SYN 4150
SAE Grade	–	10	10W-20	20	30	40
ISO Viscosity Grade	D2422	32	46	68	100	150
Viscosity, cSt, 40° C/100° C	D445	36.3 / 5.9	45.4 / 6.5	58.1 / 7.2	91.4 / 9.3	146.5 / 13.3
Viscosity Index	D2270	106	89	75	71	90
Pour Point, °C / °F	D97	-48 / -54	-40 / -40	-38 / -35	-29/-30	-34/-30
Flash Point, °C / °F	D92	252 / 486	252 / 485	252 / 485	260/500	271/520
Carbon Residue %	D189	<0.02	<0.02	<0.02	<0.02	<0.02
Evaporation %	D972	1.0	1.0	1.0	0.98	0.90
Foaming Sequences I, II, III	D892	Nil	Nil	Nil	Nil	Nil
Copper Corrosion 3hr @ 100° C	D130	1a	1a	1a	1b	1a
Four Ball Wear 40kg, 1200rpm 1hr @ 75° C	D4172	–	–	–	0.38mm	0.38mm
Specific Gravity	D1298	0.96	0.96	0.96	0.95	0.94
USDA Authorization	–	H-2	H-2	H-2	H-2	H-2
Demulsibility @ 130° F	D1401	Excellent	Excellent	Excellent	Excellent	Excellent



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