



Bart & Associates

INDUSTRIAL EQUIPMENT & SUPPLIES

I-46 D, I-68 D, I-100 D, and I-150 D **DIESTER-BASED COMPRESSOR LUBRICANTS**

Applications:

These diester-based series are fully synthetic compressor oils specially formulated with premium synthetic ester base fluids for use in a wide variety of air compressors.

I-46 D and I-68 D are designed from diester base oils for rotary screw compressors and will offer a typical service life of 8,000 hours under good operating conditions. I-100 D and I-150 D are designed from diester base oils for reciprocating compressors and are recommended for high pressure air compressors.

I-100 D and I-150 D are recommended for 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 Sulfide (dry)	Nitrogen
Furnace (crack) Gas	Hydrogen	Sulphur Hexafluoride	

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

Typical Industrial Applications:

- Rotary Screw Compressors
- Rotary Vane Compressors
- Centrifugal Compressors
- Reciprocating Compressors
- High Pressure Air Compressors
- Vacuum Pumps
- Gear Boxes
- Chains

Performance Benefits:

- Outstanding thermal and oxidative stability
- Will not varnish or form carbon deposits
- Wide operating temperature range
- Built in detergency action
- Extended drain intervals reduces oil disposal, thus increasing cost effectiveness
- Caution: May affect some paint finishes, plastics and seals
- USDA H-2 authorized



Bart & Associates

INDUSTRIAL EQUIPMENT & SUPPLIES

I-46 D, I-68 D, I-100 D, and I-150 D DIESTER-BASED COMPRESSOR LUBRICANTS

TYPICAL PROPERTIES	TEST METHOD	I-46 D	I-68 D	I-100 D	I-150 D
ISO Grade	ASTM D2422	46	68	100	150
SAE Grade	SAE J-300	10W20	20	30	40
Viscosity @ 40°C,cSt	ASTM D445	45.4	70	99	146.5
Viscosity @ 100°C,cSt	ASTM D445	6.5	7	10.2	13.3
Viscosity Index	ASTM D2270	89	60	83	90
Flash Point, °C/°F	ASTM D92	252/485	252/485	260/500	271/520
Pour Point, °C/°F	ASTM D97	-40/-40	-38/-35	-29/-30	-34/-30
Copper Corrosion	ASTM D130	1b	1a	1b	1a
Foaming Sequences I, II, III	ASTM D892	Nil	Nil	Nil	Nil
Demulsibility	ASTM D1401	Excellent	Excellent	Excellent	Excellent
Evaporation, %	ASTM D972	1.0	1.0	0.98	0.90
Carbon Residue, %	ASTM D189	<0.02	<0.02	<0.02	<0.020
Dielectric Strength	ASTM D877	---	34.33	---	---
Four Ball Wear, 40 Kg., 1200rpm, 75°C, 1 hr., Scar Diameter, mm	ASTM D4172	---	---	0.38	---
Specific Gravity	ASTM D1298	0.96	0.96	0.95	0.93