



Bart & Associates

INDUSTRIAL EQUIPMENT & SUPPLIES

I-SGOX SERIES

MULTI-PURPOSE PAO-BASED LUBRICANTS

Applications:

I-SGOX series are fully synthetic and have been formulated from premium polyalphaolefins (PAO) base fluids for enclosed gear systems requiring ashless antioxidants and anti-wear. These oils have been designed to provide proper lubrication under hydrodynamic and mild boundary lubrication conditions. They are recommended for gear systems where moderate loads and high temperatures are expected, including worm gears containing soft metals such as bronze, brass and copper.

The I-SGOX series oils are multipurpose lubricants that can be used a wide variety of industrial applications. They are similar to petroleum oils in their compatibility to seals, hoses, gaskets and paint.

Typical Industrial Applications:

- Rotary Screw Compressors
- Rotary Vane Compressors
- Centrifugal Compressors
- Reciprocating Compressors
- Vacuum Pumps
- Hydraulic Systems
- Blowers
- Enclosed Gear Units: i.e. Spur, Helical, Bevel & Worm Gears
- Plain and Roller Contact Bearings
- Circulating and Splash Lubricated Systems
- Mist Systems

Performance Benefits:

- 100% Synthetic Lubricant
- Wide Temperature Range
- Low Pour Points
- High Flash Points
- Increased Thermal & Oxidative Stability



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TYPICAL PROPERTIES	TEST METHOD	I-SGOX 32	I-SGOX 46	I-SGOX 68	I-SGOX 100	I-SGOX 150
ISO Grade	ASTM D2422	32	46	68	100	150
Viscosity @ 40°C,cSt	ASTM D445	31.1	47.3	68.6	95.2	156.3
Viscosity @ 100°C,cSt	ASTM D445	5.75	7.86	10.1	12.85	18.29
Viscosity Index	ASTM D2270	127	136	132	133	131
Flash Point, °C/°F	ASTM D92	240/464	240/464	238/460	260/500	260/500
Pour Point, °C/°F	ASTM D97	-48/-55	-48/-55	-48/-55	-45/-49	-45/-49
Copper Corrosion	ASTM D130	1B	1B	1B	1B	1B
Rust Prevention	ASTM D665	Pass	Pass	Pass	Pass	Pass
Evaporation, %	ASTM D972	<1%	<1%	<1%	<1%	<1%
Specific Gravity	ASTM D1298	0.86	0.86	0.87	0.87	0.87

TYPICAL PROPERTIES	TEST METHOD	I-SGOX 220	I-SGOX 320	I-SGOX 460	I-SGOX 680	I-SGOX 1000
ISO Grade	ASTM D2422	220	320	460	680	1000
Viscosity @ 40°C,cSt	ASTM D445	230.4	311.3	486.2	676.7	980.9
Viscosity @ 100°C,cSt	ASTM D445	24.14	29.57	41.37	54.35	98.02
Viscosity Index	ASTM D2270	131	130	133	140	136
Flash Point, °C/°F	ASTM D92	262/504	270/518	270/518	270/518	270/518
Pour Point, °C/°F	ASTM D97	-35/-31	-33/-27	-27/-17	-25/-13	-23/-9
Copper Corrosion	ASTM D130	1B	1B	1B	1B	1B
Rust Prevention	ASTM D665	Pass	Pass	Pass	Pass	Pass
Evaporation, %	ASTM D972	<1%	<1%	<1%	<1%	<1%
Specific Gravity	ASTM D1298	0.87	0.88	0.88	0.88	0.88