



Bart & Associates

INDUSTRIAL EQUIPMENT & SUPPLIES

I- SGO SERIES

PREMIUM PAO GEAR LUBRICANTS

Applications:

I-SGO Gear lubricants are fully synthetic, heavy duty industrial polyalphaolefin (PAO) gear oils intended for enclosed gears operating under adverse loads and temperatures. These are high quality, extreme pressure PAO gear oils offering exceptional performance in gears and other industrial applications.

I-SGO Gear lubricants are available in a wide range of ISO viscosity grades; ISO Grades 32 to 680.

Typical Industrial Applications:

- Enclosed Gear Units: i.e. Spur, Helical, Bevel & Worm Gears
- Agitator Drives
- Centrifuge Gear Boxes
- Extruder Reducers
- Plain and Roller Contact Bearings
- Circulating and Splash Lubricated Systems
- Mist Systems

Performance Benefits:

- Reduced downtime due to extended change intervals
- High viscosity index
- Wide temperature range
- Longer life than conventional oils
- Intended for heavy-duty extreme pressure industrial applications

I-SGO Gear Oils meet the requirements of U.S. Steel 224; AMGA 250.04; DIN 51517 Part 3; David Brown S1.53.101; Cincinnati Milacron.



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TYPICAL PROPERTIES	TEST METHOD	I-SGO 68	I-SGO 100	I-SGO 150
ISO Grade	ASTM D2422	68	100	150
Viscosity @ 40°C,cSt	ASTM D445	68	102	151.2
Viscosity @ 100°C,cSt	ASTM D445	9.9	13.2	17.8
Viscosity Index	ASTM D2270	128	127	130
Flash Point, °C/°F	ASTM D92	240/464	240/464	257/495
Pour Point, °C/°F	ASTM D97	-48/-55	-45/-49	-45/-49
Copper Corrosion	ASTM D130	1B	1B	1B
Rust Prevention	ASTM D665	Pass	Pass	Pass
Carbon Residue, %	ASTM D189	Nil	Nil	Nil
Color	Visual	Amber	Amber	Amber
Timken O.K. Load, lbs.	ASTM D2782	75	75	80
AGMA Lubricant Number	---	2 EP	3 EP	4 EP
Specific Gravity	ASTM D1298	0.88	0.87	0.86

TYPICAL PROPERTIES	TEST METHOD	I-SGO 220	I-SGO 320	I-SGO 460	I-SGO 680
ISO Grade	ASTM D2422	220	320	460	460
Viscosity @ 40°C,cSt	ASTM D445	237	309.6	480	609.2
Viscosity @ 100°C,cSt	ASTM D445	24.9	28.3	41.0	44.5
Viscosity Index	ASTM D2270	133	123	133	121
Flash Point, °C/°F	ASTM D92	221/430	235/455	250/482	250/482
Pour Point, °C/°F	ASTM D97	-37/-33	-37/-33	-30/-22	-20/-4
Copper Corrosion	ASTM D130	1B	1B	1B	1B
Rust Prevention	ASTM D665	Pass	Pass	Pass	Pass
Carbon Residue, %	ASTM D189	Nil	Nil	Nil	Nil
Color	Visual	Amber	Amber	Amber	Amber
Timken O.K. Load, lbs.	ASTM D2782	85	85	85	80
AGMA Lubricant Number	---	5 EP	6 EP	7 EP	8 EP
Specific Gravity	ASTM D1298	0.87	0.87	0.87	0.88