



Bart & Associates

INDUSTRIAL EQUIPMENT & SUPPLIES

I-32, I-46, I-68, I-100, and I-150 FG

FOOD GRADE PAO-BASED COMPRESSOR LUBRICANTS

Applications:

I-32, I-46, I-68, I-100, and I-150 FG are fully synthetic food grade compressor oils that are formulated with the highest quality polyalphaolefin (PAO) base oils.

I-100 FG is suitable for use as impregnating oil for powder metal sleeve bearings in small electric motors where food grade approvals are necessary. I-32, I-46, and I-68 FG are designed for rotary screw compressors and offer a service life of 2,000 to 4,000 hours under good operating conditions. I-100 and I-150 FG are designed for reciprocating compressors.

Typical Industrial Applications:

- Rotary Screw Compressors
- Rotary Vane Compressors
- Vacuum Pumps
- Meat & Poultry Processing Plants
- Food Processing Plants
- Reciprocating Compressors
- Centrifugal Compressors
- I-100 FG Powder Metal Sleeve Bearings in Food Grade Applications, i.e. Food Processors, Blenders.

Performance Benefits:

- Outstanding thermal oxidative stability
- Very low pour point
- Wide operating temperature range
- Non-detergent
- Extended drain intervals / reduced oil disposal
- Excellent vapor pressure characteristics
- Complies with FDA 21 CFR 178.3570 H-1
- Deemed acceptable for use in Canada

TYPICAL PROPERTIES	TEST METHOD	I-32 FG	I-46 FG	I-68 FG	I-100 FG	I-150 FG
ISO Grade	ASTM D2422	32	46	68	100	150
SAE Grade	SAE J-300	10	20	20	30	40
Viscosity @ 40°C,cSt	ASTM D445	29.6	45.2	69.5	108	138
Viscosity @ 100°C,cSt	ASTM D445	6.3	7.8	9.2	10.5	16.0
Viscosity Index	ASTM D2270	168	143	145	145	145
Flash Point, °C/°F	ASTM D92	240/404	260/500	260/500	260/500	260/500
Pour Point, °C/°F	ASTM D97	-68/-90	-48/-54	-48/-54	-42/-44	-37/-35
Copper Corrosion	ASTM D130	1b	1b	1b	1b	1b
Foaming Sequences I, II, III	ASTM D892	Nil	Nil	Nil	Nil	Nil
Demulsibility	ASTM D1401	Excellent	Excellent	Excellent	Excellent	Excellent
Evaporation, %	ASTM D972	0.07	1.0	1.0	0.90	0.90
Specific Gravity	ASTM D1298	0.83	0.84	0.84	0.84	0.84