ROYAL HIGH PERFORMANCE OILS & GREASES

HIGH PERFORMANCE OILS & GREASES · ROYAL™ · SINCE 1914

Inlube EP Gear Oil

Industrial Extreme Pressure Gear Oils

Inlube Industrial Gear Oils are premium quality, extreme pressure, industrial gear lubricants designed for use in gears and bearings. These oils are designed to operate under severe service, heavy load and shock conditions. They are recommended for use in all types of enclosed industrial gear drives, bearings, chain and slides requiring extreme pressure gear oils and have extremely good antifoam characteristics and superior water separation.

Inlube Industrial Gear Oils satisfy most major industrial gear manufacturers' requirements, including AGMA 250.04, US Steel 224, and MIL-2105 specifications for extreme pressure gear lubes, as well as Cincinnati Milacron P-76, P-77, P-74, P-59 and P-35

Product Features:

- Extreme Pressure protection
- Good antifoam characteristics
- Superior water separation

Customer Benefits:

- Premium quality industrial gear lubricant
- For use in wide variety of enclosed industrial gear drives

Applications:

- Air compressors
- bearings
- gears
- low–pressure hydraulic systems

Meets or Exceeds
AGMA 250.04
US Steel 224
MIL-2105
Cincinnati Milacron P-76, P-77, P-74, P-59 and P-35
*API GL-4

ISO 9001:2008 CERTIFIED COMPANY

Product Data Sheet

Typical Properties

Inlube Industrial Gear Oils						
Product Number	**280**	**281**	**282**	**283**	**284**	**Test Method**
ISO Grade (AGMA EP)	46 (1EP)	68 (2EP)	100 (3EP)	150 (4EP)	220* (5EP)	-
API	30.53	30.1	30	29.23	28.41	-
Specific Gravity	0.873	0.876	0.876	0.880	0.885	-
Lbs/Gal	7.273	7.292	7.297	7.332	7.369	-
Flash Point, °C	221	230	236	250	265	ASTM D92
Pour Point, °C	-27	-15	-15	-24	-18	ASTM D97
Color	<1.5	<1.0	<1.0	<2.0	<2.5	ASTM D1500
Viscosity @ 100°C, cSt	6.35	8.7	11.34	14.9	19.1	ASTM D7042
Viscosity @ 40°C, cSt	46	68	100.6	150	220	ASTM D445
SUS @ 100°F	238.5	352.7	524.8	787.4	1163	-
SUS @ 210°F	47.5	55.5	65.2	79.3	97.2	-
Viscosity Index (VI)	81	99	99	98	98	-
Rust Rating (A & B)	Pass	Pass	Pass	Pass	Pass	ASTM D665
4-ball Wear, mm (20Kg, 54°C, 1hr)	<0.01	<0.01	<0.01	<0.01	<0.01	ASTM D2266
4-Ball EP weld point, kg	250	250	250	250	250	ASTM D2783
Timken OK Load, lbs	65	65	65	65	65	ASTM 2782
FZG, Damage Stage	14 pass	14 pass	14 pass	14 pass	14 pass	ASTM D5182
Copper Corrosion (3hrs @ 121°C)	1a	1a	1a	1a	1a	ASTM D130

Typical Properties Cont.

Inlube Industrial Gear Oils					
Product Number	**285**	**286**	**287**	**288**	**Test Method**
ISO Grade (AGMA EP)	320 (6EP)	460* (7EP)	680 (8EP)	1000 (8AEP)	-
API	27.64	26.92	23.95	22.96	-
Specific Gravity	0.889	0.893	0.911	0.916	-
Lbs/Gal	7.405	7.44	7.581	7.629	-
Flash Point, °C	278	291	299	287	ASTM D92
Pour Point, °C	-12	-9	3	-9	ASTM D97
Color	<3.0	<1.5	<2.0	<6.5	ASTM D1500
Viscosity @ 100°C, cSt	25.63	31.13	37.35	44.51	ASTM D7042
Viscosity @ 40°C, cSt	342	462	702.6	1003	ASTM D445
SUS @ 100°F	1821	2474	3816	5505	-
SUS @ 210°F	126.8	152.5	182.4	217	-
Viscosity Index (VI)	98	98	88	82	-
Rust Rating (A & B)	Pass	Pass	Pass	Pass	ASTM D665
4-ball Wear, mm (20Kg, 54°C, 1hr)	<0.01	<0.01	<0.01	<0.01	ASTM D2266
4-Ball EP weld point, kg	250	250	250	250	ASTM D2783
Timken OK Load, lbs	65	65	65	65	ASTM 2782
FZG, Damage Stage	14 pass	14 pass	14 pass	14 pass	ASTM D5182
Copper Corrosion (3hrs @ 121°C)	1a	1a	1a	1a	ASTM D130

These properties are typical of the current production. Variations that do not affect product performance are to be expected depending on blending and manufacturing locations. The information above is subject to change without notice. **Health and Safety:** This product is unlikely to have any adverse health implications or safety hazards when used for its intended application. Avoid contact with skin, use resistant gloves when handling used oil. If skin comes in contact wash immediately with soap and water. For complete information on safe handling and product characteristics please refer to the Safety Data Sheet (SDS) found on our website. www.royalmfg.com or call (918)-584-2671

Packaging options:

55 Gal. Drums   275/330 Gal. Totes   >2,000 Gal. Bulk