

IGO

Mineral oil based industrial gear oil

Description

IGO is series of high quality lead-free extra-pressure lubricants for the use of all types of closed system industrial gears ranging from normal to heavy-duty applications. The lubricants are formulated from base oils with a high viscosity index with an optimum balance of additives to provide good protection against corrosion and wear, provide high oxidation resistance, and prevent the formation of foam.

Applications

IGO can be used for all types of closed systems industrial gears in conditions ranging from normal to heavy-duty operation with high loads requiring this type of lubricant. **IGO** is also suitable for use in circulatory lubrication system, spraying or misting.

Specification Meets:

IGO meets the DIN 51 517 Part II, US Steel 224, Morgan Specification of circulating oils for rollneck bearings.

Advantages

- ▶ Good rust and corrosion protection
- ▶ Good filter ability characteristics
- ▶ Foam protection

Typical Data of IGO

Characteristics	Unit	IGO				Test Method
		68	100	150	220	
Color		L 3.0	L 3.5	L 3.5	L 3.5	ASTM D 1500
Density @ 15 °C	kg/L	0.8740	0.8812	0.8885	0.8930	ASTM D 4052
Kinematic Viscosity @ 40 °C	cSt	68.10	99.3	149.7	227.5	ASTM D 445
Kinematic Viscosity @ 100 °C		5.52	11.13	14.75	19.30	
Viscosity Index		102	97	98	96	ASTM D 2270
Flash Point (COC)	°C	235	238	240	244	ASTM D 92
Pour Point	°C	-15	-21	-18	-15	ASTM D 97
Sequence I : 24 °C	mL	10/0	10/0	10/0	0/0	ASTM D 892
Sequence II : 93.5 °C		0/0	0/0	10/0	10/0	
Sequence III : 24 °C after 93.5 °C		0/0	0/0	0/0	0/0	
Oxidation Stab (100 °C, 350h) Viscosity variation	hours	3000	3000	3000	3000	Inhouse Test
FZG - Test Failure Load Stage		<11	<11	<11	<11	ASTM D 5128
Rust Prevention Stage A	Degree of Corroton	Pass	Pass	Pass	Pass	ASTM D 665
Rust Prevention Stage B		Pass	Pass	Pass	Pass	

* the typical characteristic mentioned represent mean values

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Typical Data of IGO

Characteristics	Unit	IGO			Test Method
		320	460	680	
Color		L 3.5	L 3.5	L 3.5	ASTM D 1500
Density @ 15 °C	kg/L	0.8990	0.9041	0.9070	ASTM D 4052
Kinematic Viscosity @ 40 °C	cSt	331.3	461.1	672.83	ASTM D 445
Kinematic Viscosity @ 100 °C		24.17	30.74	44.62	
Viscosity Index		96	97	117	ASTM D 2270
Flash Point (COC)	°C	248	298	250	ASTM D 92
Pour Point	°C	-15	-15	-9	ASTM D 97
Sequence I : 24 °C	mL	10/0	0/0	10/0	ASTM D 892
Sequence II : 93.5 °C		10/0	10/0	10/0	
Sequence III : 24 °C after 93.5 °C		10/0	0/0	0/0	
Oxidation Stab (100 °C, 350h) Viscosity variation	hours	3500	3500	3500	Inhouse Test
FZG - Test Failure Load Stage		<11	<11	<11	ASTM D 5128
Rust Prevention Stage A	Degree of Corroton	Pass	Pass	Pass	ASTM D 665
Rust Prevention Stage B		Pass	Pass	Pass	

* the typical characteristic mentioned represent mean values