

## ROTAN IGO EP SERIES

### EXTREME PRESSURE INDUSTRIAL GEAR OILS



### Performance Claims

MEETS REQUIREMENT OF: AIST 224; AGMA 9005-E02 (EP); GB5903-2011 L (CKD); ISO 12925-1 (CKD); FAG FE-8 PERFORMANCE; DAVID BROWN S1.53.101(E); TYPE ZB/ZD (ONLY ISO VGS 1000/1500)

### Product Description

ROTAN IGO EP SERIES are made from high quality virgin base oil and unique extreme pressure additives to be used in enclosed industrial gears and bearings.

### Features & Benefits

- ✓ Excellent extreme pressure and anti-wear, anti-rust and corrosion properties.
- ✓ Good thermal and chemical stability.
- ✓ Superior economical products for general industrial gear purpose application.
- ✓ Good seal compatibility.
- ✓ Good load carrying capability.

### Applications

ROTAN IGO EP SERIES (ISO VGs 68/100/150/220/320) are recommended for use in enclosed gears, reduction gears, as in helical, bevel and spur gears. ROTAN IGO EP SERIES (ISO VGs 460 & 680) are used for bearings & couplings and also for general purpose in the system where heavy losses are high. ROTAN IGO EP SERIES (ISO VGs 1000 & 1500) are suitable for the lubrication of steam generators and they are also fit for other applications required high thermal stability & in mechanically highly loaded lubrication points. ISO VG 1000 is advised for wet steam at steam temperatures up to +325°C while ISO VG 1500 advised for superheated steam at steam temperatures up to +380°C.

**Caution:** These product series are not recommended to be used for heavily loaded worm gears.

### Typical Test Data

Characteristics	Method	Unit	Typical Value								
Product Name			ROTAN IGO EP 68	ROTAN IGO EP 100	ROTAN IGO EP 150	ROTAN IGO EP 220	ROTAN IGO EP 320	ROTAN IGO EP 460	ROTAN IGO EP 680	ROTAN IGO EP 1000	ROTAN IGO EP 1500
Product Code			ISLI 51108	ISLI 51109	ISLI 51110	ISLI 51111	ISLI 51112	ISLI 51113	ISLI 51114	ISLI 51115	ISLI 51116
ISO Grade			68	100	150	220	320	460	680	1000	1500
Density @ 25°C	ASTM D 4052	g/cc	0.87	0.88	0.88	0.89	0.89	0.90	0.90	0.90	0.90
K. Viscosity @ 40°C	ASTM D 7042	cSt	68.30	99.80	151.3	220.6	320.7	461.3	678.4	984.4	1450
K. Viscosity @ 100°C	ASTM D 7042	cSt	8.55	11.10	14.70	18.80	24.00	30.20	37.40	48.66	61.82
Viscosity Index	ASTM D 2270	None	95	96	96	95	95	94	90	93	93
Flash Point	ASTM D 92	°C	222	230	236	242	248	258	266	292	320
Pour Point	ASTM D 6749	°C	-18	-15	-15	-12	-12	-9	-9	-6	-6
FZG Load Carrying	ASTM D 5182	Pass Stage	>11	>11	>12	>12	>12	>12	>14	>16	>16

### Health and Safety

This product used as our recommendation for intended application is not expected to produce any particular risk. A safety data sheet of the product is available on request from your sales contact office or via internet. In case of used oil elimination, please respect the regulation and protect the environment.

Available Packages | BULK | 205 L | 25 L | 20 L | 6X5 L | 4X5 L | 6X4 L | 4X4 L | 12X1L |