

## FORCE INGO ISO VG 100,150,220,320,460,680,1000

### DESCRIPTION

Force INGO Series are high quality lead free extreme pressure gear oil blended from high viscosity index base oil and sulphur phosphorus extreme pressure additives.

Force INGO Series are recommended for all types of industrial enclosed steel gear drives representing load and speed conditions of extreme severity. Although designed primarily for the lubrication of gears, their high overall performance makes it possible to extend their use to system involving gears, plain bearings, rolling bearings and sliding surfaces.

### APPLICATION

Force INGO Series are suitable for lubrication of all enclosed industrial gear sets which operated on normal through heavy load.

Force INGO Series are recommended for all industrial enclosed gear sets which require unleaded extreme pressure gear oil.

Force INGO Series are suitable for circulating, spray and oil mist application.

### BENEFITS

- High thermal stability
- Providing the best oxidation stability
- Excellent wear protection
- Preventing from foam formation
- Preventing from corrosion in machine components.

### PERFORMANCE

- Meet the specification of AIST 224
- AGMA 9005-E02
- DIN 51517 Part 3
- David Brown S1.53.101.

### TYPICAL RESULT

Characteristics	Test Method	Force INGO 68	Force INGO 100	Force INGO 150	Force INGO 220	Force INGO 320	Force INGO 460	Force INGO 680	Force INGO 1000
ISO Viscosity Grade		68	100	150	220	320	460	680	1000
Density at 15°C, kg/l	ASTM D - 4052	0.8774	0.8866	0.8908	0.8939	0.8969	0.9007	0.9014	0.9134
Kinematic Viscosity at 40°C, cSt at 100°C, cSt	ASTM D 445	65.3	97.5	145.8	212.4	313.7	461.2	673.7	987
	ASTM D - 445	8.47	11.02	14.36	18.4	23.82	30.47	41.64	70.05
Viscosity Index	ASTM D - 2270	100	98	96	96	96	95	102	139
ASTM Color	ASTM D - 1500	L 2.0	3.0	L 3.5	L 3.5	L 4.0	L 4.0	L 6.5	6.5
Flash Point, °C	ASTM D - 92	226	250	243	246	252	252	250	244
Pour Point, °C	ASTM D - 97	-9	-9	-9	-9	-9	-9	-9	-15