

Hanasaki Marine Gear Oil Series

Premium Quality Marine Gear Oil

Product Description

Hanasaki Marine Gear Oil Series are formulated using high viscosity index, solvent refined base oils and a special sulphur phosphorous additive system to provide excellent extreme pressure anti-wear performance. These lubricants have excellent water separation properties, such that excess water can be drained easily from the lubricated equipment. These oils are capable of withstanding high thermal load and have very strong resistance against the sludge and deposit formation. Hanasaki Marine Gear oil are suitable for use in enclosed gears under severe service conditions, drive gearboxes on mills, crushers, extruders, pumps, chain drives, slide guides, plain, rolling gears and other industrial applications on-board ship and in mines and mobile plants.

Hanasaki Marine Gear Oil Series offers the following benefits to their users:

- 1) Extreme pressure additives impart high load-carrying capacity to the oil
- 2) Sulphur-phosphorus additives provide superior wear protection in bulk oil temperatures up to 120°C
- 3) Excellent resistance to foaming and corrosion

Performance Standards

AGMA 9005-E02, DIN 51517 part 3, USS Steel 224, David Brown, S1.53.101 Table E

Typical Properties

| Properties | ISO Viscosity Grade | | | | | | | | |
|------------------------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 32 | 46 | 68 | 100 | 150 | 220 | 320 | 460 | 680 |
| Viscosity @ 40°C (ASTM D445) , cst | 32 | 46 | 68 | 100 | 150 | 220 | 320 | 460 | 680 |
| Viscosity @ 100°C (ASTM D445),cst | 5.6 | 7.0 | 8.9 | 11.3 | 14.7 | 18.9 | 25.0 | 31 | 35.4 |
| Viscosity Index (ASTM 2270) | 110 | 107 | 104 | 99 | 97 | 96 | 100 | 97 | 84 |
| Pour Point (ASTM D97) , °C | -24 | -21 | -18 | -15 | -15 | -12 | -6 | -6 | -5 |
| Flash Point (ASTM D92) , °C | 220 | 222 | 225 | 225 | 230 | 230 | 236 | 240 | 252 |
| Density @ 15°C (ASTM D4052), kg/l | 0.867 | 0.872 | 0.878 | 0.872 | 0.877 | 0.885 | 0.891 | 0.895 | 0.896 |

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended applications and the recommendations provided in the Material Safety Data Sheet (MSDS). MSDS is available upon request through your sales contact at Hanasaki. This product should not be used for purposes other than its intended use. When disposing of used product, please take care to protect the environment.