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TECHNICAL DATA SHEET

HB-1277

Syn-Gear Synthetic E.P. Gear Lube 4 EP (SAE 85 wt), 5 EP (90 wt), 7 EP (Light 140 wt), 8 EP (Heavy 140 wt), and 8A EP (250 wt)

DESCRIPTION:

- Formulated with synthetic base stocks and fortified with select additive systems to enhance their exceptional performance.
- Has outstanding oxidation and thermal stability, naturally high viscosity index and excellent low temperature pressure properties, and maximum protection against wear, rust, corrosion and foaming.
- Proven to reduce friction hereby reducing the input power to operate the equipment or increasing the available power output. The reduction of fluid friction results in lower lubricant operating temperatures, prolonging the life of both the lubricant and the equipment.
- The additive system used in this product not only reduces frictional drag but also protects gears against failures associated with heavy loading and meets the requirements of US. Steel 224 Specification, AGMA 250.04 Specification and API GL-4 & GL-5 service Category (Extreme Pressure Gears).

APPLICATIONS:

- Recommended for use in all types of enclosed gearing as well as plain and rolling element bearings.
- Ideal for heavily loaded low speed gears and bearings where boundary or elasto-hydrodynamic lubrication (EHL) conditions exist, such as in mine hoist gear reducers.
- Particularly recommended for gearboxes which operate under excessively high temperatures where good quality conventional oils rapidly oxidize.
- May also be used in open gear applications.
- Compatible with most seal materials, paints and plastics, including nitrile Buna N, neoprene, Viton, Teflon, polyethylene, polyurethane ether, fluorocarbon, polyacrylate, polysulfide, ethylene acrylic, epoxy, plastisol, PVC, acrylic paint and lacquer.

TYPICAL PHYSICAL PROPERTIES

| | Syngear SH-1015 | Syngear SFI-1022 | Syngear SFI- 1032 | Syngear SH-1046 | Syngear SH- 1068 | Syngear SH- 1000 |
|---------------------|--------------------|---------------------|----------------------|--------------------|---------------------|---------------------|
| Specific Gravity | 0.874 | 0.877 | 0.885 | 0.882 | 0.892 | 0.890 |
| ISO Grade | 150 | 220 | 320 | 460 | 680 | 1000 |
| AGMA | 4 EP | 5 EP | 6 EP | 7 EP | 8 EP | 8A EP |
| SAE Grade | 85 wt | 90 wt | 90 wt Heavy | 140 wt Light | 140 wt Heavy | 250 wt |
| cSt @ 40°C | 142 | 213 | 307 | 437 | 630 | 947 |
| cSt @ 100°C | 17.3 | 23.2 | 30.2 | 37.4 | 49.6 | 66.2 |
| SOS @ 100~F | 733 | 1107 | 1607 | 2293 | 3335 | 5026 |
| SUS @ 210°F | 89 | 116 | 147 | 182 | 240 | 320 |
| Viscosity Index | 133 | 134 | 134 | 130 | 134 | 135 |
| Pour Pt. °F (C) | -50 | -45 | -40 | -30 | -30 | -34 |
| Flash Pt. °F(C) | 464 (240) | 428 (220) | 421 (216) | 430 (221) | 430 (221) | 430 (221) |
| Copper Corrosion | 1B | 1B | 1B | 1B | 1B | 1B |
| Rust Test | Pass | Pass | Pass | Pass | Pass | Pass |
| Timken OK. lbs | 65 | 65 | 65 | 65 | 65 | 65 |
| Four-Ball Wear, lbs | 250 | 250 | 250 | 250 | 250 | 400 |
| Four-Ball Scar Dia | .30 | .30 | .30 | .30 | .30 | .30 |