

747S

Syn-O-Gen

Synthetic Industrial Gear Lubricant

DESCRIPTION:

Syn-O-Gen 747-S is an extreme-pressure synthetic hydrocarbon industrial gear lubricant designed to meet and exceed all industrial gear lubricant specifications and provide superior extreme-pressure protection and long life in a wide range of industrial applications.

COMPOSITION:

Syn-O-Gen 747-S contains a sulfur phosphorus-performance package consisting of extreme-pressure additives, demulsifiers, and rust, corrosion, and oxidation inhibitors in polyalphaolefin (PAO) synthetic hydrocarbon basestocks.

PERFORMANCE CHARACTERISTICS:

Meets and exceeds the following industrial performance requirements:

- US Steel 224
- AGMA 250.04
- DIN 51517 Part 3
- David Brown ET 33/80
- API GL-4

BENEFITS:

- Extra-high load carrying ability
- Reduced wear in critical applications
- Adhesive - cohesive property
- Prevents rust
- Will not mix with water
- Non-corrosive to yellow metals
- Superior oxidation stability
- Extends equipment life
- Extends service intervals
- Reduces power consumption

TYPICAL SPECIFICATIONS:

| AGMA Grade | 4 EP | 5 EP | 6 EP | 7 EP | 8 EP | 8A EP | |
|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ISO Grade | 150 | 220 | 320 | 460 | 680 | 1000 | 1500 |
| Specific Gravity | .863 | .863 | .868 | .870 | .876 | .887 | .887 |
| Viscosity: | | | | | | | |
| cSt @ 40° C | 160 | 215 | 310 | 480 | 659 | 1015 | 1450 |
| cSt @ 100°C | 19.6 | 24.3 | 31.2 | 42.5 | 53.1 | 75.2 | 116.5 |
| Viscosity Index | 141 | 141 | 139 | 139 | 139 | 147 | 176 |
| Pour Point, ° C | -30 | -28 | -25 | -24 | -22 | -15 | -13 |
| Flash Point (min.), ° C | 220 | 220 | 220 | 220 | 220 | 220 | 220 |



SYNTHETIC LUBRICANTS

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PERFORMANCE TEST DATA:

| Test | Procedure | Result |
|-------------------------|------------------|--------|
| Copper Corrosion | D 130 | 1A |
| Timken OK Load, lbs. | D 2266 | 40 |
| FZG Load Stages | DIN 51354 Part 2 | 12 |
| Demulsibility: | D 2711 | |
| Free Water | | 83 |
| Water in Oil (%) | 0.5 | |
| Emulsion, ml | | 0.1 |
| Turbine Oil Rust | D 665 | |
| A - Distilled Water | | Pass |
| B - Synthetic Sea Water | | Pass |
| Oxidation Test: | U.S. Steel | |
| Viscosity Increase (%) | | 1.5 |