

SYNGEL 217

SYNTHETIC POWDER METAL BEARING MICROGEL

APPLICATIONS:

The MicroGels take impregnating oils to a higher level of performance. The MicroGels are intended for use in the oil reservoir surrounding the bearing, allowing the synthetic impregnating oil suspended in the gel to migrate into the bearing providing extended bearing life. MicroGels contain no soap grease thickeners. These products are a gel form of the impregnating oil.

The SynGel series are MicroGels based on our Syntroil® impregnating oils and are intended for use in conjunction with powder metal bearings that have been impregnated with these same oils. Other MicroGels are available based on our Omnilube® plastic compatible impregnating lubricants.

TYPICAL INDUSTRIAL APPLICATIONS:

- Impregnating Applications

PERFORMANCE BENEFITS:

- Increased bearing service life
- Excellent thermal and oxidative stability
- Low evaporation rate
- Non-melting dropping point over 500°F
- Contains no petroleum or silicone oils
- Useful temperature range -40°F to 450°F

| TYPICAL PROPERTIES | TEST METHOD | SynGel 217-1 | SynGel 217-2 |
|-------------------------------------|-------------|--------------|--------------|
| NLGI Grade | --- | 1 | 2 |
| Dropping Point, °F | ASTM D2265 | >500 | >500 |
| Oil Separation, 24 hrs. at 400°F, % | ASTM D6184 | 3.0 | 2.9 |
| Normal Hoffman Bomb Oxidation | | | |
| 100 hrs. PSI loss | --- | 1 | 1 |
| 500 hrs. PSI loss | | 2 | 2 |
| Base Oil | --- | Synthetic | Synthetic |
| Base Oil Viscosity @ 40°C, cSt | ASTM D445 | 56.9 | 56.9 |
| Base Oil Viscosity @ 100°C, cSt | ASTM D445 | 9.3 | 9.3 |
| Gel, % | | ~4 | ~6 |
| Flash Point, °C/°F | ASTM D92 | 288/550 | 288/550 |