



Pyroshield® Syn Open Gear Grease

| | <u>5182*</u> | <u>5180</u> |
|--|--------------|---------------------|
| Thickener Type | Bentone | Bentone |
| Texture | Smooth/Tacky | Smooth/Tacky |
| Color | Purple | Purple |
| NLGI Grade as applied | 2 | 0 |
| NLGI Grade in service | 2 | 2 |
| Worked 60 Penetration ASTM D217 | 275 | 365 |
| Worked 10K Penetration ASTM D217 | +14 | +14 |
| Worked 100K Penetration ASTM D217 | +28 | +28 |
| Dropping Point °C (°F), ASTM D2265 | Non-melt | Non-melt |
| Base Fluid Characteristics | | |
| Flash Point °C (°F), ASTM D92 | 224 (435) | 110 (230) |
| Viscosity @ 100°C, cSt, ASTM D445 | 690 | 690 (in service) |
| Viscosity @ 40°C, cSt, ASTM D445 | 26,180 | 26,180 (in service) |
| Pour Point °C (°F), ASTM D97 | 3 (37) | 3 (37) |
| Oxidation drop in psi @ 100 hrs, ASTM D942 | 3 | 3 |
| Corrosion Prevention DI H2O, ASTM D1743 | Pass | Pass |
| Timken OK Load lbs, ASTM D2509 | 90 | 90 |
| Four-Ball EP Weld Point kgf, ASTM D2596 | 500 | 620 |
| Four-Ball EP Load Wear Index kgf, ASTM D2596 | 116 | 136 |
| Four-Ball Wear @ 75°C(167°F), 1200 rpm, 40 kgf, 60 minutes, mm wear, ASTM D2266 | 0.71 | 0.71 |
| Water Spray-off % loss, ASTM D4049 | <2.0 | <2.0 |
| Copper Corrosion 24 hrs @ 100°C, ASTM D4048 | 1b | 1b |

* An aerosol version of Pyroshield 5182 – Pyroshield 5100 – will have the same physical characteristics as 5182 once in service. The convenient spray cans, which contain no chlorofluorocarbons, are ideal for use with open gears, chains and slides.

Recommendations

- For best results when switching to Pyroshield Syn Open Gear Grease, first clean the area of application with LE's Duolec® Vari-Purpose Gear Lubricant (1609).

Using Pyroshield 5100 & 5180

- Use adequate ventilation if used indoors. These lubricants contain a safe, non-chlorinated solvent for improved pumpability and ease of application at low temperatures.
- After application, the solvent evaporates. The resulting lubricant is an NLGI grade 2 grease.
- 5180 should not be further diluted with solvent, even if partial evaporation has occurred, as the functional characteristics could be altered.

Performance Requirements Met or Exceeded

- 5180: Metso Mineral Grinding

Typical Applications

- Various applications in the mining and mineral processing industry
- Open gears and slides
- Ball mill open gears
- Kiln open gears
- Bar screens
- Dipper sticks
- Circle rails

