# TECPLEX®

## 00180S-H1

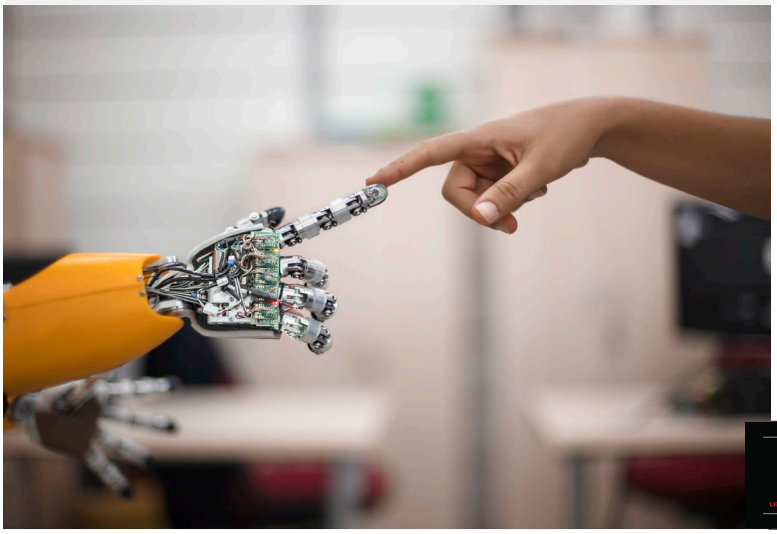
## SYNTHETIC ROBOTIC GREASE, INDUSTRIAL & FOOD-SAFE

## ROBOTIC EQUIPMENT SERIES

***TECPLEX® 00180S-H1*** is a semi-fluid grease used on reduction gear boxes in robotic applications. It is 100% synthetic, made with pure PAO base oil and other synthetic components. Using Daubert's next generation calcium sulfonate thickener, this grease provides exceptional properties with only a minimal additive package… allowing the grease to be used in food processing applications requiring NSF H1, Kosher, and Halal registrations. ***TECPLEX® 00180S-H1*** provides excellent lubrication for high speed bearings and sensitive robotics in food processing facilities.

## TYPICAL APPLICATIONS

- Precision gears and bearings in light duty, high speed equipment.
- Electric motors and pick-and-place robotics
- Suitable as a transit coating for corrosion protection of precision parts (bearings and gears).
- Suitable for many fluid-lubrication requirements in food-processing facilities.



## KEY FEATURES

- Grade 00, 180 cSt PAO Base Oil Formulation.
- Inherent protection from rust and corrosion.
- 100% PAO Base Oil… no mineral oil component.
- Wide operating temperature range, and very effective in extremely low temps (-40C and below).
- Mechanically stable… virtually no consistency change during/after usage.
- Environmentally friendly formulation contains no antimony, barium, chlorine, phosphorus, zinc or free sulfur.
- NSF H1 Registration Number: 154787

DAUBERT CHEMICAL COMPANY, INC.

QUALITY SYSTEM CERTIFICATION DNV·GL ISO 9001 NSF K IFANCA CERTIFIED M HALAL حلال

BiSA LEADER IN BEARING & ROTATING EQUIPMENT SERVICES AND SUPPLIES

AUTHORIZED DISTRIBUTOR
Southern Africa Region

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| PHYSICAL PROPERTIES | TEST METHOD | TYPICAL VALUES |
|---|---|---|
| NLGI Grade | ASTM D217 | 00 |
| Color | Visual | Off-White |
| Texture | Visual | Semi-Fluid |
| Dropping Point, °C | ASTM D2265 | 288°C |
| Worked Penetration, 60 Double Strokes, dmm | ASTM D217 | 385 - 415 |
| Mechanical Stability | | |
| *Worked Penetration 10,000 Double Strokes, % Change* | ASTM D217 | < 3.0 |
| *Worked Penetration 100,000 Double Strokes, % Change* | ASTM D217 | < 3.0 |
| *Worked Penetration 10,000 Double Strokes with 10% Water, % Change* | ASTM D217 | < 3.0 |
| Roll Stability, % change | ASTM D1831 | < 3.0 |
| Timken OK Load, kg | ASTM D2509 | 20 |
| 4-Ball EP:LWI, kgf | ASTM D2596 | 40 |
| Weld Point, kg | ASTM D2596 | 315 |
| 4-Ball Wear, mm | ASTM D2266 | 0.45 |
| Fretting Wear, mg | ASTM D4170 | < 10 |
| Bearing Rust Protection | ASTM D1743 | Pass |
| Salt Fog Corrosion, 1 mil d.f.t., hours | ASTM B117 | > 300 |
| Wheel Bearing Leakage, grams | ASTM D4290 | < 10 |
| Bearing Life Performance, hours | ASTM D3527 | 150+ |
| Bomb Oxidation, 100 hours @ 99°C, PSI Drop | ASTM D942 | < 1 |
| Water Washout, % removed | ASTM D1264 | < 10 |
| Oil Separation, % loss | ASTM D1742 | < 5 |
| Copper Strip Corrosion | ASTM D4048 | 1b |
| Base Oil Viscosity, cSt | ASTM D445 | |
| @ 100°C | | 22 |
| @ 40°C | | 180 |
| Viscosity Index | | 135 |
| Pour Point °F | | < -40 |
| Mobility @ 0°F, Grams/Min | USS LT-37 | 35 g/min |
| Mobility @ -20°F, Grams/Min | USS LT-37 | 8 g/min |

***REFER TO MATERIAL SAFETY DATA SHEET FOR HEALTH AND SAFETY INFORMATION.***

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