



# TECHNICAL DATA

Rev.06/19

## PETRO-GARD® XP-1

### SYNTHETIC FOOD GRADE CALCIUM SULFONATE COMPLEX LUBRICATING GREASE

**PETRO-GARD® XP-1** grease is a 100% synthetic calcium sulfonate thickened lubricating grease created specifically for the pharmaceutical, food service, bakeries, dairy, meat and poultry, beverage, and packaging industries. It's base fluid and additive package provide superior water spray off and water wash off properties. It offers excellent anti wear properties extreme pressure properties oxidation resistance and protection from rust and corrosion. The synthetic base stock gives **PETRO-GARD XP-1** exceptional low temperature and thermal stability over a wide temperature range from -40°C to 177°C (350°F). **PETRO-GARD® XP-1** is NSF H1 registered for incidental contact with food in and around food processing areas.

**PETRO-GARD® XP-1** are ideal for bearings and couplings in dough mixers, cookers and other equipment used in food processing and bakeries where water resistance and high operating temperatures are a concern. Special additives are employed to keep the grease in place between wash-down cycles, which improves equipment and lubricant life in wet conditions.

| SYNTHETIC FOOD GRADE GREASE                                | PETRO-GARD® XP-1                |
|------------------------------------------------------------|---------------------------------|
| NLGI Grade                                                 | 1                               |
| ISO GRADE                                                  | 220                             |
| Color                                                      | Off White to Beige              |
| Texture                                                    | Semi-Fluid                      |
| Base Oil -ASTM D 446                                       | Synthetic Hydrocarbon           |
| Viscosity at 40°C cSt                                      | 220 cSt                         |
| Viscosity at 100°C cSt                                     | 25.53 cSt                       |
| Viscosity Index                                            | 147                             |
| Thickener Type                                             | Calcium Sulfonate               |
| Density at 20°C g/cm3                                      | 0.98                            |
| Service Temperature                                        | -40°C to 177°C (-40 F to 350°F) |
| Drop Point -ASTM D 2265                                    | 600 F                           |
| Penetration Worked 60 ds                                   | 310 - 340                       |
| Oil Separation -ASTM D6184                                 | < 0.5%                          |
| 4-Ball Wear - ASTM D 2266                                  | 0.50 mm                         |
| 4-Ball Load EP Weld Pt                                     | 400 kg                          |
| Last seizure load                                          | 315 kg (2.02mm)                 |
| Weld load, kg ASTM D 2596                                  | 400 kg                          |
| Corrosion Preventative Properties – ASTM D 1743            | Pass                            |
| Corrosion Preventative Properties EMCOR ASTM D 6138        | 0/0                             |
| Water Washout – ASTM D 1264                                | <1 %                            |
| NSF Registered (Approved for incidental contact with food) | H1                              |

Shelf Life: Product shelf life is 3 years from the date of manufacture, after which the product should be recertified prior to use. Warehouse in unopened containers at ambient conditions. For information on the safe handling and use of this product, refer to the Safety Data Sheet.

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