

## 195 SUPERTAC FOOD GRADE GREASE H1

Supertac Food Grade Grease H1 is an extreme pressure, anti-wear, high temperature grease that is specially formulated for use in the lubrication of food, feed and pharmaceutical processing and packaging equipment, especially those pieces of equipment that are subjected to high loads and high moisture conditions.

Supertac Food Grade Grease H1 meets the requirements for a USDA H1 quality lubricant and the requirements of the United States Code of Federal Regulations 21CFR 178.3570, 178.3620(b), and 573.680 of the United States Food and Drug Administration's Regulations.

Supertac Food Grade Grease H1 can be used in the lubrication of ball, roller, journal and sliding bearing applications and chain applications, where there is a chance of incidental contact with food, foodstuffs, drinking water, potable water, or ground water may occur. Typically, these applications can be found in the following industries:

|   |                                      |
|---|--------------------------------------|
| Meat and Poultry Processing Plants        | Egg Processing Plants                |
| Fish and Seafood Processing Plants        | Breweries and Wineries               |
| Soft Drink and Bottling Plants            | Vegetable and Fruit Processors       |
| Cheese and Cheese Product Producers       | Bakeries                             |
| Snack Food Manufacturers                  | Pasta Manufacturers                  |
| Pet Food and Animal Feed Producers        | Oil Mills and Seed Cake Processors   |
| Pharmaceutical and Drug Manufacturers     | Cosmetic Manufacturers               |
| Food and Beverage Container Manufacturers | Paper and Paperboard Manufacturers   |
| Water Well Drillers                       | Drinking and Potable Water Treatment |

Supertac Food Grade Grease H1 is compounded from a unique blend of the highest quality, highly refined and purified non-toxic pure paraffin base technical white and USP grade white oils and polyalphaolefin (PAO) synthetic base fluids available. Blended into the paraffin base technical white USP grade white oils and PAO synthetic base fluids is an aluminum complex base thickener, adhesive/cohesive additives, a food grade antimicrobial agents and other selected performance additives.

This formulation provides with the following outstanding performance features:

- Excellent pumpability characteristics for use in centralized lube systems.
- Excellent resistance to water washout and water spray-off
- Excellent shear and mechanical stability.
- Superior anti-wear and extreme pressure load carrying properties.
- Excellent rust and oxidation inhibiting characteristics.
- Excellent resistance to oxidation.
- A high dropping point.
- Excellent resistance to acidic compounds.
- Protection against rancidity and build-up due to bacterial and fungal growth
- Excellent resistance to wash out, pound out, splatter and squeeze out.
- Excellent ability to retain its consistency and resist separation of its base oils.

Supertac Food Grade Grease H1 has an operating temperature range of 10° to 350°F.

## TYPICAL PROPERTIES

| <b>NLGI Grade</b>                                    | <b>1</b>         | <b>2</b>         |
|--|------------------|------------------|
| Type Thickener                                       | Aluminum Complex | Aluminum Complex |
| Worked Penetration 60 strokes (ASTM D217)            | 310-340          | 265-295          |
| Roll Stability (ASTM D1831), % consistency change    | 4.38             | 3.46             |
| Dropping Point (ASTM D566) °F/°C                     | >500/260         | >500/260         |
| Four Ball Wear (ASTM D2266), scar diameter, mm       | 0.56             | 0.56             |
| Four Ball EP Weld Point (ASTM D2596), kg             | 400              | 400              |
| Four Ball Load Wear Index (ASTM D2596), kg           | 67               | 67               |
| Timken OK Load, (ASTM D2509), lb                     | 45               | 45               |
| Falex Continuous Load (ASTM D3233), failure load, lb | 1300             | 1360             |
| Leakage Tendencies (ASTM D1263, total, g             | 0.13             | 0.13             |
| Water Spray Off Test (ASTM D4049), % loss            | 9.2              | 9.2              |
| Water Washout (ASTM D1264), % loss @ 175°F           | 6.2              | 4.1              |
| Rust Prevention (ASTM D1743), rating                 | Pass             | Pass             |
| Copper Strip Corrosion (ASTM D4048), rating          | 1b               | 1b               |
| Oxidation Stability (ASTM D942), psi loss            | 2                | 2                |
| Evaporation Loss (ASTM D2595), %                     | 1.03             | 1.03             |
| <b>Base Oil Properties</b>                           |                  |                  |
| Viscosity @ 40°C (ASTM D445), cSt                    | 290-330          | 290-330          |
| Viscosity @ 100°C (ASTM D445), cSt                   | 32.0-38.5        | 32.0-38.5        |
| Viscosity Index (ASTM D2270)                         | 167              | 167              |