

## PETRO-GARD® LCH-220

### SYNTHETIC LITHIUM COMPLEX HYDROCARBON GREASE

**PETRO-GARD® LCH Series** synthetic greases are heavy-duty multipurpose lubricating greases with development emphasis on long-term and lifetime lubrication of rolling element bearings under moderate to high load. The special lithium complex soap thickener and synthetic hydrocarbon base oil are proven components for high temperature operation. Special anti-oxidant blended additives provide oxidation stability at both low and high temperatures. Synergistic corrosion inhibitors offer protection for both ferrous and yellow metals, which are commonly used in today's rolling element bearings. NSF H-2 registered, meets USDA 1998 H-2 guidelines – Can be used in food plants for non-food contact. Contains no carcinogens and is environmentally friendly.

#### PHYSICAL PROPERTIES:

| Property  | Petro-Gard LCH-220               |
|---|----------------------------------|
| Color   | Beige                            |
| Texture   | Homogenous                       |
| Base Oil -ASTM D 446                            | Synthetic hydrocarbon            |
| Viscosity at 40°C cSt                           | 226                              |
| Viscosity at 100°C cSt                          | 26                               |
| Viscosity Index                                 | 146                              |
| Thickener Type                                  | Lithium complex soap             |
| Density at 20°C g/cm3                           | 0.870                            |
| Service Temperature                             | -22°F to 285°F<br>-30°C to 140°C |
| NLGI Grade                                      | 2                                |
| Drop Point -ASTM D 2265                         | Approx 280°C                     |
| Penetration Worked 60 ds                        | 280 1/10 mm                      |
| Prolong worked 100,000 ds ASTM D 217            | 310 1/10 mm                      |
| Oil Separation -ASTM D6184                      | < 3%                             |
| 4-Ball Wear - ASTM D 2266                       | 0.57mm, 0.52mm                   |
| 4-Ball Load Wear Index                          | 50                               |
| Last non seizure load                           | 80-kg (0.39mm)                   |
| Last seizure load                               | 250-kg (2.02mm)                  |
| Weld load, kg ASTM D 2596                       | 315                              |
| Corrosion Preventative Properties – ASTM D 1743 | Pass                             |
| Corrosion Preventative Properties EMCOR         | 0/0                              |
| ASTM D 6138                                     |                                  |
| Copper Corrosion ASTM D 4048                    | 1b                               |
| Timken OK Load, lbs ASTM D 2509                 | 65                               |

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