

Food Grade Grease Properties Comparison

Jan. 10, 2008

| Test Items | Grease | | | | Shell | Shell | Sumico Lubricant | LUBE | LUBE |
|---------------------------------------|-------------|--------------|---|--|--|------------------|------------------|-------------|------|
| | LUBE | Casida RLS 1 | Casida EPS 2 | White Alcom No.1 | | | | | |
| Appearance | Beige | Transparent | White | White | | | Dark Brown | Green | |
| Worked Penetration | 325 | 325 | 280 | 329 | | | 325 | 300 | |
| Dripping Point (°C) | 220 | 240 | 240 | 230 | | | 193 | 205 | |
| Copper Corrosion (100°C / 24h) | Pass | | | Pass | | | Pass | Pass | |
| Evaporation Loss (99°C / 22h) Mass. % | 0.5 | | | | | | 1.42 | 0.19 | |
| Oil Separation (100°C / 24h) Mass% | 2.1 | 1.9 | 1.9 | | | | 2.1 | 2.2 | |
| Water Washout (38°C / 1h) Mass% | | | | 1.2 | | | 4.5 | | |
| Oxidation Stability (99°C / 100h) MPa | 0.05 | | | | | | 0.03 4 | 0.029 | |
| High Speed | | LNL N | 1236 | 1960 | | | 618 | 1236 | |
| | | WL N | 1960 | 2450 | 2450 | | | 1961 | 3920 |
| Test | | LWI N | 101 | 164 | | | 317 | 649 | |
| Thickener | | | | | | | | | |
| Base Oil | Type of Oil | | Aluminum Complex | Aluminum Complex | Aluminum Complex | Aluminum Complex | Lithium | Lithium | |
| | | | Synthetic | Synthetic | Synthetic | Liquid Paraffin | Mineral Oil | Mineral Oil | |
| | | Viscosity | Hydrocarbon Oil | Hydrocarbon Oil | Hydrocarbon Oil | | | | |
| | | 40°C | 150 | 220 | 70 | | 64.7 | 138.8 | |
| | | 100°C | 22 | 15.10 | 7 | | 7.914 | 14.30 | |
| Solid Lubricant Content | | None | Calcium Carbonate Zink (Sulfide) Oxide 3wt% | Calcium Carbonate Zink (Sulfide) Oxide 11wt% | Calcium Carbonate Zink (Sulfide) Oxide More than 10wt% | | | | |