

## ELBAPLEX LCS SERIES

ELBAPLEX LCS series lubricating 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 fully 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. antifriction solid lubricants as well as corrosion and oxidation inhibitors Synergistic corrosion inhibitors offer protection for both ferrous and yellow metals which are commonly used in today's rolling element bearings.

| Physical Properties       |                 |                 |                       |
|---------------------------|-----------------|-----------------|-----------------------|
| ELBAPLEX LCS              | 100             | 220             | 460                   |
| NLGI Grade                | 2               | 2               | 1.5                   |
| Color                     | Beige           | Beige           | Beige                 |
| Texture                   | Homogenous      | Homogenous      | Homogenous            |
| Base Oil - ASTM D 446     | Synthetic       | Synthetic       | Synthetic             |
| Viscosity at 40°C cSt     | hydrocarbon     | hydrocarbon     | hydrocarbon           |
| Viscosity at 100°C cSt    | Approx 103      | Approx 226      | Approx 470            |
| Viscosity Index           | Approx 15       | Approx 26       | Approx 45             |
| Thickener Type            | Approx 150      | Approx 146      | Approx 150            |
| Density at 20°C g/cm3     | Lithium         | Lithium         | Lithium               |
| Service Temperature       | complex soap    | complex soap    | complex soap          |
| Drop Point - ASTM D 2265  | 0.870           | 0.870           | 0.870                 |
| Penetration               |                 |                 |                       |
| Worked 60 ds              | -40°F to 285°F  | -31°F to 302°F  | -22°F to 285°F        |
| Prolong worked 100,000 ds | -40°C to 140°C  | -35°C to 150°C  | -30°C to 140°C        |
| Oil Separation            | Approx 280°C    | Approx 280°C    | Approx 280°C          |
| 4-Ball Wear               | 280 1/10 mm     | 280 1/10 mm     | 300 1/10 mm           |
| 4-Ball Load Wear Index    | 310 1/10 mm     | 310 1/10 mm     | 330 1/10 mm           |
| Last non seizure          |                 |                 |                       |
| load Last seizure         | < 3%            | < 3%            | < 4%                  |
| load Weld load, kg        | 0.47mm, 0.47mm  | 0.57mm, 0.52mm  | 0.55mm, 0.58m         |
| Corrosion Preventative    | 43              | 50              | 54                    |
| Properties - ASTM D 1743  | 63-kg (0.31mm)  | 80-kg (0.39mm)  | 100-kg (0.43mm)250-kg |
| Corrosion Preventative    | 250-kg (2.12mm) | 250-kg (2.02mm) | (2.11mm               |
| Properties EMCOR          | 315             | 315             | 315                   |
| ASTM D 6138               | Pass            | Pass            | Pass                  |
| Copper Corrosion          | 0/0             | 0/0             | 0/0                   |
| ASTM D 4048               | 1b              | 1b              | 1b                    |
| Timken OK Load, lbs       | 70              | 65              | 75                    |
| ASTM D 2509               |                 |                 |                       |

### For Technical, Quality or Product Safety Questions Please Contact:

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