



## Grease USG

### High performance grease

#### Description

Grease USG is a high performance lithium-calcium hydroxystearate thickened grease using the latest extreme pressure, anti-wear, anti-oxidation and corrosion inhibiting additives which are designed to reduce wear, improve grease performance and extend component life in dry and dusty, wet and shock loaded conditions.

#### Applications

Grease USG has been designed for the lubrication of standard and heavy duty anti-friction roller and plain bearings operating in normal and more demanding applications experienced in many industries such as agricultural, automotive, construction, commercial, industrial and marine application.

Grease USG can be applied manually, by using a suitable grease gun or via a central lubrication system.

Grease USG has a recommended operating temperature range of -20 to 140°C.

#### Benefits

- Excellent water washout resistance for the protection against water penetration experienced in wet conditions
- Excellent load bearing properties and anti-wear performance prolongs component life
- Excellent mechanical stability extends relubrication intervals and reduces lubrication costs
- Excellent oxidation stability provides lasting lubrication at high temperatures
- Tackifying additives improve adhesive characteristics

#### Typical performance data

|  | Test method | USG 2           |
|--|-------------|-----------------|
| Appearance                                       | -           | Tacky grease    |
| Colour   | Visual      | Brown           |
| NLGI Grade                                       | -           | 2               |
| Thickener  | -           | Lithium Calcium |
| Base oil   | -           | Mineral         |
| Base oil viscosity @ 40°C, cSt                   | ASTM D-445  | 220             |
| DIN 51 502 Classification                        | -           | KP2N-20         |
| DIN 51 825 Classification                        | -           | KP2N-20         |
| Worked Penetration, dmm                          | IP 50       | 265-295         |
| Extended Worked Penetration 10.000 strokes, dmm  | IP 50       | 294             |
| Extended Worked Penetration 100.000 strokes, dmm | IP 50       | 308             |
| Dropping Point, °C                               | ASTM D-2265 | >180            |
| Oil Separation 42 hours @ 40°C, %                | IP 121      | 1.1             |

All performance data on this Technical Data Sheet are indicative only and can vary during production

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|  |             |           |
|--|-------------|-----------|
| Oil Separation 168 hours @ 40°C, %                 | IP 121      | 2.5       |
| Water Washout 1 hour @ 38°C, %                     | ASTM D-1264 | 1.7       |
| Water Washout 1 hour @ 79°C, %                     | ASTM D-1264 | 3.1       |
| Water Spray Off, %                                 | ASTM D-4049 | 50        |
| 4-ball, Wear Scar, mm                              | IP 239      | 0.62      |
| 4-ball, Weld Load, Kgf                             | IP 239      | 315       |
| Oxidation Stability, time to 10% loss @ 150°C, min | -           | 270       |
| Roll stability- 2 hours @ 35°C, dmm                | ASTM D1832  | 298       |
| Temperature Range, °C                              | -           | -20 – 140 |

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