



# BP Energrease LS Range

Multi-purpose - general grease

## Description

BP Energrease™ LS grades are lithium soap based greases incorporating solvent-refined mineral oils. They contain oxidation and corrosion inhibitors which help to ensure long service life and a high level of protection for metal surfaces. They are additionally water-resistant.

## Application

Energrease LS grades are primarily intended for use in plain and anti-friction; ball and roller bearings besides other machinery applications. They are recommended for use under normal load conditions, within an operating temperature range of -25°C to +130°C. Due to the low viscosity used in these products, they are particularly suitable for high speed bearings.

Energrease LS 3 is suitable for severe vibration conditions.

## Advantages

- Long service life
- Water resistant
- Good pumpability
- Vibration resistant

## Typical Characteristics

| Typical Characteristics                  | Test Methods             | Units | LS 1        | LS 2        | LS 3        |
|------------------------------------------|--------------------------|-------|-------------|-------------|-------------|
| Thickener type                           | -                        | -     | Lithium     | Lithium     | Lithium     |
| NLGI Classification                      | ISO 2137 /<br>ASTM D 217 | -     | 1           | 2           | 3           |
| Colour                                   | Visual                   | -     | light brown | light brown | light brown |
| Texture                                  | Visual                   | -     | smooth      | smooth      | smooth      |
| Drop Point                               | ISO 2176 /<br>ASTM D2265 | °C    | 190         | 190         | 190         |
| Base oil viscosity @ 40°C                | ISO 3104/<br>ASTM D445   | mm²/s | 110         | 110         | 110         |
| Worked Penetration,<br>25°C / 60 strokes | ISO 2137 /<br>ASTM D 217 | 0.1mm | 310-340     | 265-295     | 220-250     |
| Working Stability 60 / 100000 strokes    | ISO 2137 /<br>ASTM D 217 | 0.1mm |             | 40          | 45          |
| Oil Separation 168 h / 40°C              | IP 121/<br>DIN 51817     | %wt   |             | 3           | 1           |
| Anti -Rust Performance (Emcor)           | IP 220 /<br>DIN 51802    | -     |             | 0/0         | 0/0         |
| Copper-Corrosion, 24h@120°C              | ISO 2160 /<br>ASTM D4048 |       |             | 1-120       | 1-120       |
| Oxidation Stability 100 h/100°C          | ASTM D942 /<br>DIN 51808 | bar   |             | 0.2         | 0.2         |
| Water resistance, 3h                     | DIN 51807/1              | -     |             | 1-90        | 1-90        |
| SKF-R2F-test rig Run Cond. 'B', 130°C    | DIN 51806                | -     |             | pass        | pass        |
| Flow pressure: -20°C                     | DIN 51805                | mbar  |             | 1000        | 1400        |
| DIN Classification                       | DIN 51502 /<br>DIN 51826 | -     |             | K2K         | K3K         |

Subject to usual manufacturing tolerances.

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