

# SF05 perma high temperature- / extreme pressure grease

Rolling and plain bearings

## Description

perma SF05 is a special lubricating grease based on mineral oil, polyurea and MoS<sub>2</sub>. It has a wide service temperature range and is suitable for plain and rolling bearings up to a service temperature of 160°C.

perma SF05 ensures excellent wear protection, and its EP additives provide a high pressure absorption capacity. It is very adhesive and resistant to water under static and dynamic loads, to oxidation and ageing. The solid lubricant particles (MoS<sub>2</sub>) provide additional safety due to their emergency lubrication properties.

## Application

perma SF05 is suitable for rolling bearings subject to high temperatures, vibrations, shock loads, aggressive liquids or active detergents. It has proven effective in electric motors, pumps and fans. This grease is also suitable for plain bearings and for steel/steel components. Under mixed friction conditions it reduces friction and temperatures. Its high efficiency under extreme conditions makes it a multi-purpose grease for the iron and steel industry, base materials and construction industries (cement, lime, gypsum).

## Application information

perma SF05 is a lubricant especially developed for the perma lubricant dispenser. To ensure adequate metering and maintenance-free lubrication, this product is only available in an automatic perma lubricant dispenser.

## Shelf life

Shelf life is approx. 12 months if the product is stored in its unopened original container in a dry and frost-protected place.

## Packaging

- perma lubrication systems  
- 400g cartridges on request (for pre-lubrication with manual grease gun)

## Sourcing reference

perma-tec GmbH & Co. KG  
Hammelburger Str. 21  
97717 Euerdorf/Germany  
Tel. +49 (0) 9704-609 0  
Fax +49 (0) 9704-609 3190  
www.perma-tec.com

## perma SF05

- Efficient at high temperatures, vibrations, shocks
- Resistant to oxidation and ageing
- Good wear protection
- Good anticorrosion properties
- High pressure absorption capacity
- Resistant to aggressive media
- Good sealing effect
- Good emergency lubrication properties due to solid lubricant particles

## Product data

|   |                             |
|---|-----------------------------|
| Base oil  | mineral oil + PAO           |
| Thickener   | polyurea / MoS <sub>2</sub> |
| Base oil viscosity, DIN 51562, at 40°C, mm <sup>2</sup> /s                          | 500                         |
| Colour  | black                       |
| Density, DIN 51757, at 20°C, g/cm <sup>3</sup> , approx.                            | 0.91                        |
| Drop point, DIN ISO 2176, °C  | > 240                       |
| Worked penetration at 25°C, DIN ISO 2137; 0.1 mm, approx.                           | 340 - 370                   |
| Speed factor, (n x d <sub>m</sub> ), approx.  | 2,0 x 10 <sup>5</sup>       |
| Consistency, NLGI grade, DIN 51818  | 0/1                         |
| Service temperature range, °C   | - 20 to 160                 |
| Flow pressure, DIN 51805, at - 20°C, mbar   | < 1400                      |
| Water resistance, DIN 51807, 3 h / 90°C, rating                                     | 0/1 - 90                    |
| Corrosion protection, DIN 51802, Emcor test (1 week, dist. water), corrosion rating | 1/1                         |