



# OKS 2501 - Product Information

## Fields of Application:

Lubrication of all kinds of high stressed sliding surfaces, especially at low sliding speeds or with oscillating movements, for example with screwed, mating or bayonet connections made of steel or non-ferrous metals. Separation of temperature-stressed screwed connections – for example, in combustion engines and turbines – even after extended periods of operation. Corrosion protection of screws, pins, bolts, flanges, spindles and adapters in refineries, steel and cement works and also for ships and agricultural machinery.

## OKS 2501 White Allround Paste, metal free, Spray

## Advantages and Benefits:

A single paste for many different applications. High lubricating, reduces wear, provides dependable separation, and ensures outstanding protection against corrosion. Economic solution for users who previously relied on a wide variety of special pastes. Resistant to hot and cold water and also to most acids and lyes. Classed under category H2 by the NSF. Contains no metallic pigments and is free of graphite, molybdenum disulphide and also additives containing sulphur. Improved performance due to organic molybdenum complex compounds.

## Application:

For best adhesion, clean contamination and other lubricants from thread and slide surfaces. Best way is to clean mechanically first (for example, with a wire brush) and then with OKS 2610 or OKS 2611 universal cleaner. Spray a suitable quantity of paste evenly to the head or nut contact surface and to the thread from a distance of 20 - 30 cm . The paste will also act as a sealant. Do not use paste instead of grease and mix only with suitable lubricants. Our customer advice service will be pleased to help should you have any further questions.

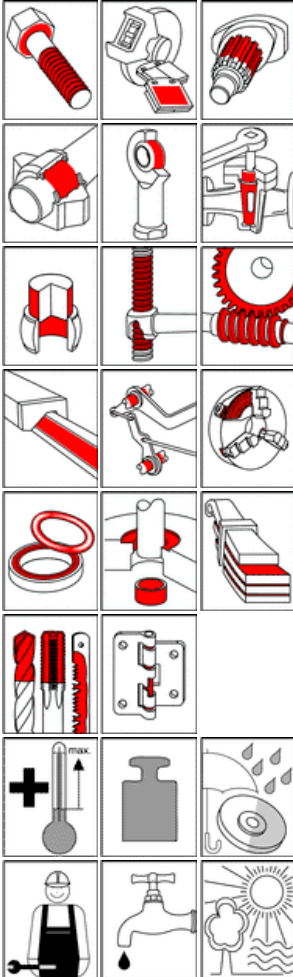
## Additional Information:

Packaging (Article number):

- 400 ml Spray (02501004)

Version:  
E-05.1/05

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## Technical Data

|  | Norm             | Conditions   | Unit               | Value                     |
|--|------------------|--|--------------------|---------------------------|
| <b>Base Oil</b>                          |                  |  |                    |                           |
| Type                                     |                  |  |                    | Synthetic oil             |
| Viscosity                                | DIN 51 562-1     | +40°C  | mm <sup>2</sup> /s | 21                        |
| <b>Thickener</b>                         |                  |  |                    |                           |
| Type                                     |                  |  |                    | Polyurea                  |
| Consistency                              | DIN 51 818       | DIN ISO 2137   | NLGI- class        | 1 - 2                     |
| Unworked penetration                     | DIN ISO 2137     | No shear stress  | 0,1 mm             | 280 - 320                 |
| Drop point                               | DIN ISO 2176     |  | °C                 | none                      |
| Oil separation                           | DIN 51 817       | 168h/40°C  | Mass-%             | 0,5                       |
| <b>Additives</b>                         |                  |  |                    |                           |
| Solid lubricants, type                   |                  |  |                    | White solid lubricants    |
| Solid lubricants, entire share           | DIN 51 831-1     | > 25 µm  | Mass-%             | 35 - 40                   |
| Additive                                 |                  |  | none               | Mo <sub>x</sub> -Active   |
| <b>Application Data</b>                  |                  |  |                    |                           |
| Density                                  | DIN EN ISO 3838  | +20°C  | g/cm <sup>3</sup>  | 1,2                       |
| Colour                                   |                  |  | none               | white                     |
| <b>Service Temperatures</b>              |                  |  |                    |                           |
| Minimum service temperature              |                  |  | °C                 | -40                       |
| Maximum service temperature, lubrication |                  |  | °C                 | 200                       |
| Maximum service temperature, separation  |                  |  | °C                 | 1400                      |
| Water resistance                         | DIN 51 807-1     | +90°C  | Grade 1-3          | 1 - 90                    |
| <b>Tests corrosion protection</b>        |                  |  |                    |                           |
| Salt spray test                          | DIN 50 021       | Layer thickness 50 µm  | h                  | > 500                     |
| <b>Wear Protection Tests</b>             |                  |  |                    |                           |
| VBT- weld load (Four ball test rig)      | DIN 51 350-4     |  | N                  | 4.000                     |
| SVR-oscillation friction apparatus       |                  | Cyl./plate, 450N, 1000µm, 50Hz, 2h                             | µ                  | 0,10 - 0,13               |
| SRV-width of wear                        |                  | Cyl./plate, 450N, 1000µm, 50Hz, 2h                             | mm                 | 0,3                       |
| <b>Friction Values</b>                   |                  |  |                    |                           |
| Press-fit-test                           | E DIN 51 833     |  | µ                  | 0,08, no chatter          |
| Thread friction value                    | DIN EN ISO 16047 | Screw: ISO 4017 M10x55-8.8 plane<br>Nut: ISO 4032 M10-10 plane | µ                  | 0,10                      |
| Break-loose torque                       |                  | M10 A2/40 Nm/400°C/100h  | Nm                 | < 3,0 x tightening torque |

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