



Multemp PS consists mainly of synthetic oil having excellent low-temperature properties and lubricity. Multemp PS is well-suited for sealed bearings and has been accepted for many years by bearing and electrical machinery manufacturers.

*Excellent low-temperature properties, long performance life*

# **MULTEMP PS**

**High speed rolling bearing grease for precision machinery**

## FEATURES

### Low-temperature properties

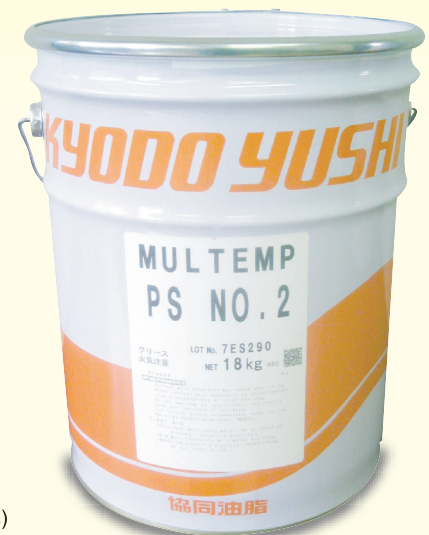
Multemp PS is made from low viscosity synthetic oil and mineral oil and can be used as low as -50°C. Very small low-temperature torque allows easier cold starting.

### Noise suppressive properties

Impurities are removed from the main raw materials of Multemp PS. The additives are strictly selected and Multemp PS is manufactured by a special process in a dust-free factory. Multemp PS helps achieve quieter bearing performance.

### Performance life

With selected oxidation inhibitor Multemp PS provides longer performance life, promising extended interval of grease refilling and bearing replacement.



## PRODUCT PACKAGING

- 2.5 kg litho tin×6 (carton)
- 18 kg pail
- 180 kg drum

## Typical analyses of MULTEMP PS

| Test item                                            | Multemp PS No.1      | Multemp PS No.2      | Test method            |               |               |
|------------------------------------------------------|----------------------|----------------------|------------------------|---------------|---------------|
| Appearance                                           | peach white, buttery | peach white, buttery | —                      |               |               |
| Thickener                                            | Lithium soap         | Lithium soap         | —                      |               |               |
| Worked penetration                                   | 320                  | 275                  | ASTM D217              |               |               |
| Dropping point <span style="float: right;">°C</span> | 185                  | 190                  | ASTM D566              |               |               |
| Copper strip corrosion                               | 100°C, 24h           | pass                 | ASTM D4048             |               |               |
| Evaporation loss mass %                              | 99°C, 22h            | 0.64                 | ASTM D972              |               |               |
| Oil separation mass %                                | 100°C, 24h           | 6.4                  | ASTM D6184-98 Mod.     |               |               |
| Oxidation stability kPa                              | 99°C, 100h           | 5.0                  | ASTM D942              |               |               |
| Foreign particles<br>particles/cm <sup>3</sup>       | 10 μm or larger      | 400                  | FTMS 791C-3005<br>Mod. |               |               |
|                                                      | 25 μm or larger      | 100                  |                        |               |               |
|                                                      | 75 μm or larger      | 0                    |                        |               |               |
|                                                      | 125 μm or larger     | 0                    |                        |               |               |
| Working stability                                    | 370                  | 350                  | FTMS 791C-313          |               |               |
| Water washout mass %                                 | 38°C, 1h             | 6                    | 3                      | ASTM D1264    |               |
| Low-temperature torque<br>mN·m                       | -40°C                | Starting torque      | 64                     | 69            | ASTM D1478-63 |
|                                                      |                      | Running torque       | 14                     | 15            |               |
|                                                      | -50°C                | Starting torque      | 140                    | 180           |               |
|                                                      |                      | Running torque       | 37                     | 49            |               |
| Corrosion preventive properties                      | 52°C, 48h            | #1                   | #1                     | ASTM D1743-73 |               |
| Base oil kinematic viscosity<br>mm <sup>2</sup> /s   | 40°C                 | 15.3                 | 15.3                   | ASTM D445     |               |

### Low-temperature Torque Test (ASTM D1478-63)

