

KÜBERG SILICONE PRESTIGE

Specialty Lubricant Based on High-Purity Silicone Polymers

1. PRODUCT DESCRIPTION

KÜBERG SILICONE PRESTIGE is a high-purity, physiologically safe specialty grease formulated with an advanced matrix of selected silicone polymers and inorganic thickeners. Engineered for superior lubrication of plastic/plastic and plastic/metal material combinations, this premium fluid design stands out for its exceptional thermal threshold, elite dielectric insulation values, and absolute neutrality towards elastomers and O-rings.

2. CORE INDUSTRIAL APPLICATIONS

Fittings & Valve Technology: Lubrication of precision seals, plug cocks, and control pistons in sanitary and industrial plant systems.

Electrical & Electronic Engineering: Moisture barriers and dielectric insulation of connectors, ignition systems, and industrial insulators.

Precision Mechanics & Optics: Fill-for-life lubrication of linear slide guides, plastic gear trains, and sensitive adjustment mechanisms.

3. KEY PERFORMANCE ADVANTAGES

Broadest Temperature Envelope: Fully operational from extreme -40 °C up to constant +200 °C without structural breakdown or thickening.

Elite Material Compatibility: Completely neutral to common elastomers (EPDM, NBR, FKM), actively preventing seal swelling or embrittlement.

High Media Resistance: Highly resilient against cold and hot water process flooding, aqueous solutions, and lower alcohols.

4. TYPICAL TECHNICAL LABORATORY VALUES

Technical Property	Testing Method / Standard	Target Value / Specification
Thickener Type	Chemical Matrix	Inorganic Thickener (Silica Gel)
Base Oil Type	Chemical Matrix	High-Purity Silicone Polymers (Polydimethylsiloxane)
NLGI Consistency Grade	DIN 51818	Grade 2
Color / Visual Aspect	Visual Inspection	Translucent-White, High-Viscosity Fluid
Base Oil Viskosity at 40 °C	DIN 51562	ca. 1.000 mm ² /s
Unworked Penetration	ISO 2137	265 – 295 (0.1 mm)
Dropping Point	DIN ISO 2176	Dropping point free
Dielectric Dissipation Factor	DIN 53483	< 0.001
Water Resistance	DIN 51807-1	0 - 90 (No structural change)
Corrosion Protection (EMCOR)	DIN 51802	Distilled Water: 0 / 0

5. LEGAL NOTICE & DISCLAIMER

The technical data provided in this document is based on systematic laboratory testing and industrial simulation phases current at the date of publication. It represents pure informational and scientific product analysis for B2B engineering evaluations. Due to the wide variety of individual operational parameters and machinery environments, KÜBERG TECHNOLOGY assumes no direct liability for specific application outcomes.

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