

KÜBERG POLYUREA PRESTIGE

High-Performance Synthetic Polyurea Specialty Grease

1. PRODUCT DESCRIPTION

KÜBERG POLYUREA PRESTIGE is an advanced, fully synthetic high-temperature grease engineered with a next-generation ashless organic polyurea thickener matrix. Designed specifically for the most demanding B2B heavy industrial applications, this premium formulation delivers exceptional mechanical shear stability, elite thermal resistance, and extended service life far exceeding conventional metallic soap-based greases.

2. CORE INDUSTRIAL APPLICATIONS

Steel & Metallurgical Plants: High-temperature roller bearings in continuous casting plants, cooling beds, and ladle turret bearings.

Cement & Clinker Industries: Heavy-duty bearings in clinker kilns, exhaust fan bearings, and pre-heater roller assemblies.

Chemical & Processing Machinery: High-stress autoclave bearings, drying kilns, and chemical pump bearings under aggressive atmospheres.

3. KEY PERFORMANCE ADVANTAGES

Exceptional Thermal Threshold: Continuous operational safety from -30 °C up to +180 °C (momentary peak resistance up to +200 °C).

Elite Water Washout Resistance: Advanced hydrophobic barrier properties ensure zero structural degradation and zero washout under severe process water exposure.

Ashless Corrosion Protection: Next-generation chemical inhibitor matrix protects precision bearings against oxidation and chemical wear in sour gas and humid environments.

4. TYPICAL TECHNICAL LABORATORY VALUES

Technical Property	Testing Method / Standard	Target Value / Specification
Thickener Type	Chemical Matrix	Advanced Organic Polyurea (Ashless)
Base Oil Type	Chemical Matrix	Fully Synthetic (PAO / Ester)
NLGI Consistency Grade	DIN 51818	Grade 2
Color / Visual Aspect	Visual Inspection	Smooth, Amber-Translucent
Base Oil Viskosity at 40 °C	DIN 51562	400 mm ² /s
Base Oil Viskosity at 100 °C	DIN 51562	40 mm ² /s
Worked Penetration (60 strokes)	ISO 2137	265 – 295 (0.1 mm)
Dropping Point	IP 396 / DIN ISO 2176	> 260 °C
Four-Ball Weld Load (VKA)	DIN 51350-4	4.000 N (400 kg)
Corrosion Protection (EMCOR)	DIN 51802 / ISO 11007	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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