

KÜBERG CALCIUM SULFONATE PRESTIGE

Ultra-Performance Calcium Sulfonate Complex Grease for Severe Water & Offshore Environments

1. PRODUCT DESCRIPTION

KÜBERG CALCIUM SULFONATE PRESTIGE is an ultra-performance specialty grease utilizing an advanced, overbased calcium sulfonate complex thickener matrix. Uniquely engineered for maritime, offshore, and heavy mining infrastructure subject to extreme structural water inundation and harsh saline spray, this advanced chemical fluid design delivers phenomenal inherent anti-corrosion, exceptional mechanical shear retention, and unparalleled load-carrying stability without relying on heavy polymer additives.

2. CORE INDUSTRIAL APPLICATIONS

Maritime & Offshore Infrastructure: Open deck winches, harbor cranes, wire ropes, rudder assemblies, and offshore splash-zone mechanisms.

Wet Industrial Processes: Wet-end roll bearings in pulp and paper mills, high-humidity pelleting presses, and industrial food washing sectors.

Mining & Underground Tunneling: Submerged pumping systems, drilling head joints, and equipment operating under severe process water inflow.

3. KEY PERFORMANCE ADVANTAGES

Inherent Rust & Corrosion Mitigation: The sulfonate matrix acts as a native chemical rust inhibitor, neutralizing aggressive saltwater and corrosive atmospheres.

Elite Mechanical Shear Cohesion: Retains its precise consistency even under extreme water contamination phases, preventing grease liquefaction or wash-off.

Native High-Load Resilience: Calcite crystal structures within the thickener provide natural extreme pressure (EP) defense and very high weld load performance.

4. TYPICAL TECHNICAL LABORATORY VALUES

Technical Property	Testing Method / Standard	Target Value / Specification
Thickener Type	Chemical Matrix	Overbased Calcium Sulfonate Complex
Base Oil Type	Chemical Matrix	High-Viscosity Synthetic-Fortified Fluid
NLGI Consistency Grade	DIN 51818	Grade 2
Color / Visual Aspect	Visual Inspection	Smooth, Dark Brown / Tan-Opaque
Base Oil Viskosity at 40 °C	DIN 51562	460 mm ² /s
Base Oil Viskosity at 100 °C	DIN 51562	38 mm ² /s
Worked Penetration (60 strokes)	ISO 2137	265 – 295 (0.1 mm)
Dropping Point	IP 396 / DIN ISO 2176	> 280 °C
Four-Ball Weld Load (VKA)	DIN 51350-4	5.000 N (500 kg)
Corrosion Protection (EMCOR)	DIN 51802 / ISO 11007	Synthetic Seawater: 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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