

## Bentonite Grease Specification

### 1. Product Description

Bentonite grease is a non-melting, high-performance lubricating grease formulated with a bentonite clay thickener and high-quality base oils. It is designed for applications operating under high temperatures where conventional soap-based greases may fail. It offers excellent stability, water resistance, and load-carrying capacity.

### 2. Technical Specifications

Property	Typical Value	Test Method
Appearance	Smooth, semi-solid grease	Visual
Color	Brown/Black/Gray (Varies)	Visual
Thickener Type	Bentonite Clay	-
Base Oil Type	Mineral or Synthetic Oil	-
NLGI Grade	1, 2, or 3	ASTM D217
Penetration (Worked, 60 Strokes)	265-295 (NLGI 2)	ASTM D217
Dropping Point	Non-Melting	ASTM D2265
Base Oil Viscosity @ 40°C	100 - 460 cSt	ASTM D445
Base Oil Viscosity @ 100°C	10 - 35 cSt	ASTM D445
4-Ball Weld Load	≥ 250 kgf	ASTM D2596
4-Ball Wear Scar (1 hr, 40 kg, 1200 rpm, 75°C)	≤ 0.6 mm	ASTM D2266
Timken OK Load	≥ 20 lbs	ASTM D2509
Operating Temperature Range	-20°C to +200°C (Short Term: +220°C)	-

Property	Typical Value	Test Method
Water Washout @ 80°C	≤ 3%	ASTM D1264
Copper Corrosion (24h @ 100°C)	1a (Pass)	ASTM D4048
Oxidation Stability (100h @ 100°C, Pressure Drop)	≤ 10 psi	ASTM D942
Rust Prevention (Distilled Water, 48h @ 52°C)	Pass	ASTM D1743

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### 3. Key Features & Benefits

- **Non-Melting:** Suitable for high-temperature applications where conventional greases fail.
  - **Excellent Thermal Stability:** Maintains consistency at high temperatures.
  - **Superior Load-Carrying Capacity:** Provides excellent protection under heavy loads and extreme pressures.
  - **Water Resistance:** Resists water washout, making it ideal for wet environments.
  - **Corrosion and Oxidation Protection:** Prevents rust and oxidation for extended equipment life.
  - **Good Adhesion:** Stays in place, reducing the need for frequent re-application.
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### 4. Applications

- High-temperature bearings and bushings
  - Kiln and oven conveyor systems
  - Steel plants, foundries, and cement industries
  - Mining and construction equipment
  - Automotive chassis and industrial machinery
  - Applications requiring a non-melting grease
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## 5. Packaging

- 400g Cartridges
  - 1kg, 5kg, and 15kg Pails
  - 50kg and 180kg Drums
  - Custom packaging available upon request
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## 6. Storage & Handling

- Store in a cool, dry place away from direct sunlight.
  - Keep containers tightly closed to avoid contamination.
  - Use clean tools and equipment to avoid grease degradation.
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