



WATER WASHOUT CHARACTERISTICS OF LUBRICATING GREASE

Water Washout Characteristics Of Lubricating Grease TT-1264

Water Washout Characteristics Of Lubricating Grease TT-1264 adheres to the ASTM D1264 Standard Test Method, which assesses the water washout characteristics of lubricating greases.

Water Washout Characteristics Of Lubricating Grease TT-1264 evaluates the grease's ability to resist washout by water from a bearing when subjected to testing at 38 and 79°C (100 and 175°F) under specific laboratory conditions. It's important to note that this method is not equivalent to service evaluation tests. Precision and bias were determined through the use of greases ranging from NLGI 3 to 0 grades in the research report.

APPLICATIONS

The Torontech TT-1264 is a specialized apparatus designed to deliver precise, repeatable analysis of the water washout characteristics of lubricating greases in accordance with the ASTM D1264 standard. By quantifying a grease's ability to resist water ingress and maintain its integrity, this instrument provides critical data for formulation, quality assurance, and material selection. Its silent, direct-drive motor and precision flow control ensure stable and accurate testing for the most demanding technical environments.

This evaluation is crucial across several key industrial sectors:

- **Marine & Offshore:** Assessing the durability of greases for stern tubes, wire ropes, winches, and deck machinery constantly exposed to saltwater spray and immersion is critical to preventing corrosion and mechanical failure.
- **Heavy Equipment & Off-Highway:** In construction, mining, and agriculture, equipment bearings and chassis components are frequently subjected to wet, muddy, and high-pressure washing conditions.[3][4] This testing ensures the lubricant remains in place to protect against wear.
- **Steel & Paper Mills:** Both industries operate machinery in the presence of high volumes of water, steam, and corrosive elements. The TT-1264 helps qualify greases that can withstand these harsh conditions in roller bearings and

other critical components, preventing costly downtime.

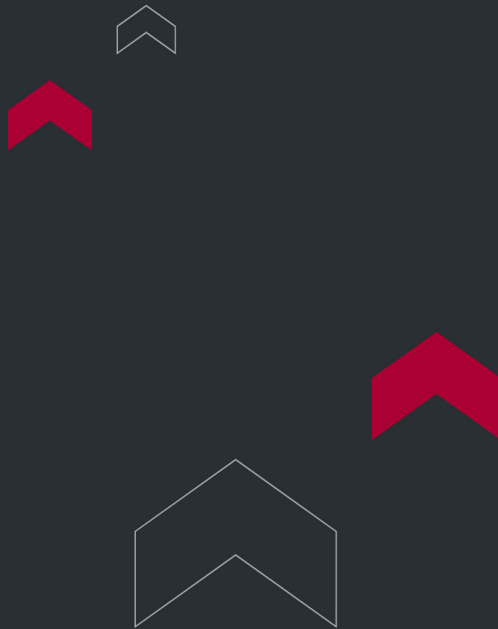
- **Automotive:** From wheel bearings to chassis components, automotive greases must resist washout from road spray and environmental moisture to ensure long-term lubrication and protection against corrosion.

FEATURES

- The apparatus includes a stainless steel bath with a reliable bearing and stainless steel spray circuit.
- Featuring an motor with a direct drive spindle, the equipment operates silently and maintains stability.
- A digital tachometer provides real-time display of the revolving speed.
- Utilizing a flowmeter and two sets of precision needle valves, the system effectively controls the flow rate.

TECHNICAL SPECIFICATIONS

1. The rated voltage options are AC 220V $\pm$ 10% 50Hz or 110V $\pm$ 10% 60Hz. (110V also available)
2. The heating power of the sink is 500W.
3. The sink temperature range is adjustable from room temperature to 100°C, continuously.
4. Temperature control accuracy is within $\pm 1^\circ\text{C}$.
5. The total power consumption is 600W.
6. The spray water rate is set at $5 \pm 0.5\text{ml/s}$.
7. The bearing speed is maintained at $600 \pm 30\text{r/min}$.
8. Ambient requirements include a temperature range of 10 to 40°C and humidity not exceeding 85%.



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