

Grease Tests

Gold bullets indicate ISO/IEC 17025:2017 Accreditation

Method	Test Description	Sample Size
• ASTM D92	Flash Point, Grease	200 g
ASTM D94	Saponification Number	25 g
ASTM D217	Cone Penetration, Grease, Unworked	800 g
ASTM D217	Cone Penetration, Grease, Worked, 60 Strokes	800 g
ASTM D217	Cone Penetration, Grease, Worked, 10,000 Strokes	800 g
ASTM D217	Cone Penetration, Grease, Worked, 100,000 Strokes	800 g
ASTM D566	Dropping Point Grease	50 g
ASTM D942	Oxidation Stability (Grease) 100 Hours	150 mL
ASTM D972	Evaporation Loss (Grease) - Specify Time and Temperature	150 mL
ASTM D1092	Apparent Viscosity, Grease	500 g
ASTM D1264	Water Washout (Single Temperature)	50 g
ASTM D1264	Water Washout (Two Bearings Per Method/ Single Temperature)	100 g
ASTM D1403	Cone Penetration, 1/4 or 1/2 Scale	100 g
ASTM D1404	Harmful Particles in Grease	30 g
ASTM D1478	Low Temperature Torque - Grease	10 g
ASTM D1742	Oil Separation, Storage of Greases	300 g
ASTM D1743	Rust Prevention Properties of Grease	50 g
ASTM D1831	Roll Stability of Grease	100 g
ASTM D2265	Dropping Point	50 g
• ASTM D2266	Four Ball Wear (Grease)	100 g
ASTM D2509	Timken OK Load for Grease (Specify starting load)	3400 g
ASTM D2595	Evaporation Loss, Grease, Wide Temperature Range	25 g
• ASTM D2596	Four Ball Extreme Pressure (Grease) Up to 400 kg.	500 g
• ASTM D2596	Four Ball Extreme Pressure (Grease) Above 400 kg.	500 g
ASTM D2622	Sulfur by XRF - Wavelength Dispersive	30 mL
ASTM D3336	High Temperature Bearing Performance Up to 600 Hours	50 g
ASTM D3527	High Temperature Life, Wheel Bearing Grease	120 mL
ASTM D3704	Oscillation Friction Wear, Grease	20 g
• ASTM D4048	Copper Strip Corrosion, Grease	100 g
ASTM D4049	Resistance of Lubricating Grease to Water Spray	25 g
ASTM D4170	Fretting Wear, Grease	40 g
ASTM D4289	Elastomer Compatibility NBR L and CR Grease	400 g
ASTM D4289	Elastomer Compatibility NBR L or CR Grease	200 g
ASTM D4289	Elastomer Compatibility HPM Elastomer	200 g
ASTM D4290	Leakage of Wheel Bearing Grease	200 g
ASTM D4693	Low Temperature Torque, Grease	50 g
ASTM D5483	Oxidation Stability of Greases by PDSC	10 g
ASTM D5706	Extreme Pressure Properties Using SRV, Procedure A	20 g
ASTM D5706	Extreme Pressure Properties Using SRV, Procedure B	20 g
ASTM D5707	High Frequency, Linear Oscillation, SRV of Grease	20 g
ASTM D5969	Corrosion-Preventive, Dilute Synthetic Sea Water Environments	30 g
ASTM D6138	Corrosion-Preventive, Dynamic Wet Conditions (Emcor Test)	40 g
ASTM D6138	Corrosion-Preventive, Dynamic Wet Conditions (Emcor Test - 2 Bearings)	40 g
ASTM D6184	Oil Separation Percent, Wire Cone Method	100 g
ASTM D6185	Compatibility of Two Greases	2400 g
ASTM D6186	Oxidation Induction Time by PDSC	20 mL
• ASTM D6304	Water by Karl Fischer	100 mL
ASTM D6482	Cooling Curve Analysis of Aqueous Polymer Quenchants	1100 mL
ASTM D7217	Tribological Test - Friction and Wear Model Test for Sliding Friction of Solids (Ball on Disc System)	1100 mL



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ASTM D7420	Tribomechanical Properties of Grease Lubricated Plastic Socket Suspension Joints Using a High-Frequency, Linear-Oscillation SRV	100 g
ASTM D7594	Fretting Wear, High Hertzian, High-Frequency, Linear-Oscillation (SRV)	50 g
ASTM D8022	Roll Stability, Presence of Water	454 g
DIN 50324	Tribological Test - Friction and Wear Model Test for Sliding Friction of Solids (Ball on Disc System)	100 g
DIN 51805	Flow Pressure, Kesternich Method	50 g
FTM-321	Oil Separation, Wire Cone Method, Grease	100 g
FTM-3005	Dirt Count of Grease	5 g
ISO 14635	FZG Gear Test	2 L
• SAVLAB IR	Fourier Transform Infra-Red, FTIR, Spectra Only	50 mL
SAVLAB LIMPUMP	Lincoln Vent Meter Pumpability, Below 0°C	800 g
SAVLAB LIMPUMP	Lincoln Vent Meter Pumpability, Room Temperature	800 g
US Steel LT-37	Grease Mobility	50 mL



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