



DRY SAND/RUBBER WHEEL APPARATUS



APPLICATIONS AND STANDARD TEST METHODS

Suitable for testing:

- Metals
- Glass
- Plastics
- Composite materials
- Ceramics
- Coatings

Applications include:

- Industrial Equipment
- Paints
- Plastics
- Coatings
- Slurry Abrasion
- Construction/Farm Equipment

**ASTM G65 Standard Test Method for Measuring
Abrasion Using the Dry Sand/Rubber
Wheel Apparatus**

**ASTM B611 Standard Test Method for Abrasive Wear
Resistance of Cemented Carbide**

**ASTM G105 Standard Test for Conducting Wet Sand/
Rubber Wheel Abrasion Tests**

**SAE Recommended Practice Resistance to Abrasive Wear Using
Rubber Wheel Abrasion Machine**

SYSTEM DESCRIPTION

SPEED AND VELOCITY:

Variable speed control, 350 rpm max.

6.65" steel wheel (ASTM B611): 609.3 fpm max.

7" rubber wheel (SAE or ASTM G105): 641.4 fpm max.

9" rubber wheel (ASTM G65): 824.7 fpm max.

LOAD:

2.5 to 1 lever system with dead weights. Bale rod weights supplied.

Test loads to 75 lbs max.

TEST CONDITIONS:

Standard Dry Sand Test Configuration. Optional Systems available for Wet Sand and other types of slurries.

TEST DURATION AND REVOLUTION COUNTER:

Timer Control System for automatic test shutoff and Cycle counter with built-in automatic cutoff (standard).

SPACE REQUIREMENTS:

Bench Top: 60 in. (L) x 24 in. (D) x 40 in. (H)

SHIPPING INFORMATION:

615 lb., 42 in. (L) x 36 in. (W) x 42 in. (H)

150 lb., 31 in. (L) x 31 in. (W) x 36 in. (H)

Shipping dimensions and weights are typical and subject to change.

SYSTEM DESCRIPTION

010-001-001 FALEX DRY SAND/RUBBER WHEEL APPARATUS

Standard items included with Test Machine:

9 inch Rubber Wheel (2)

2.5 to 1 Load Lever System (30 lbs. Bale Weights)

Specimen Holder

Variable Speed Motor 350 RPM max

Test Cycle Counter & Cutoff

Exhaust Outlet

Wheel Dresser Assembly

010-105-018 WET SAND OPTION (SAE Method, ASTM B611 and G105)

Slurry Chamber

Specimen Holders

Stirring Paddles

ASTM G65 TEST WHEELS

010-501-001 9 INCH RUBBER WHEEL
58 to 62 Shore A

ASTM G105 TEST WHEELS

010-501-013 7 INCH RUBBER WHEEL
68 to 72 Shore A

010-501-012 7 INCH RUBBER WHEEL
58 to 62 Shore A

010-501-011 7 INCH RUBBER WHEEL
48 to 52 Shore A

ASTM B611 TEST WHEELS

010-501-005 6.65 INCH STEEL WHEEL

TEST MATERIALS AND SUPPLIES

010-500-001 ASTM G65 REFERENCE TEST SPECIMEN
AISI D-2 Tool Steel, 59 to 60 HRC

010-500-003 ASTM G65 REFERENCE TEST SPECIMEN
AISI H-13 Tool Steel, 47 to 48 HRC

010-500-070 TEST SAND, AFS 50/70 (as per ASTM G65)
50 lb/bag

100-599-001 ALUMINA OXIDE, 30 grit (as per ASTM B611)
50 lb/bag

010-050-004 REPLACEMENT SAND NOZZLE, CALIBRATED
300 to 400 g/min sand flow

010-041-002 WHEEL DRESSING TOOL



NEW AND USED
TEST SAMPLES



For All of Your Lubricant and Materials Testing

Lubricants

- Pin and Vee Block
- Block-on-Ring
- Timken EP
- Tapping Torque
- Panel Coker
- High Temperature/High Speed Bearing
- Four Ball Wear
- Four Ball EP
- High Temperature Wheel Bearing
- Thermal Oxidation Stability (L60-1)
- Fretting Wear
- Hydrolytic Stability
- Grease Corrosion Test
- Isothermal Oxidation
- Hydraulic Fluid Pump Stand (Vickers and Conestoga)
- Thermal Fouling Tendencies (FT)²

Abrasion and Erosion

- Dry Sand/Rubber Wheel
- Air Jet Erosion
- Miller Number Slurry

Fuels and Solvents

- Ball on Three Disk Fuel Lubricity
- Thin Film Evaporator
- Fuel Deposit Simulator
- Falex 400 Thermal Oxidation Tester for ASTM D3241 (JFTOT Procedure)

Materials

- Journal Bearing
- Multi-Specimen
- Crossed Cylinders
- Low Velocity Friction Apparatus
- Pin on Disk
- Coefficient of Stoption
- Life Performance Face Clutch System
- Thin Coating Wear (Electrical Contacts)
- Dual Drive Rolling Contact Fatigue
- High Speed Bearing/Mechanical Clutch

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