



The Only Standardized Unit on the Market!

Falex Dry Sand/Rubber Wheel Apparatus offers the most accurate testing of abrasion resistance on a variety of materials. The Falex Dry Sand/Rubber Wheel Apparatus has been involved with the ASTM Standardization Process for over 30 years. In fact, Falex is listed as the sole source of supply in ASTM G65 and is the only commercially available apparatus that has participated in Inter-Laboratory Studies as support for the precision statements. The rugged and reliable Falex Dry Sand Rubber Wheel Apparatus can provide years of service. The Wet Sand Option includes the slurry chamber front piece and o-ring. Optional Test Kits are available for either ASTM B611 or G105 testing. The Falex apparatus' versatility has enabled it to successfully evaluate, and rank, a wide variety of materials, including weldment overlays, cermets and polymers, in abrasive conditions. Additionally, the apparatus can be used for custom testing tailored to specific abrasion conditions and materials.

010-001-001 Dry Sand/Rubber Wheel Apparatus with Wet Sand Option

- » 9" Rubber Wheel (2) (ASTM G65): 824.7 fpm max.
- » 2.5 to 1 Load Lever System tests loads up to 75 lb. max (30 lbs. Bale Rod Weights)
- » Specimen Holder
- » Variable Speed Control Motor 350 RPM max
- » Test Cycle Counter & Cutoff
- » Exhaust Outlet
- » Wheel Dressing Tool
- » Slurry Chamber
- » Stirring Paddles

Suitable for Testing

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

Applications For:

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

Used in Standard Test Methods

ASTM G65	Standard Test Method for Measuring Abrasion Using the Dry Sand/Rubber Wheel Apparatus
ASTM B611	Standard Test Method for determining the High Stress Abrasion Resistance of Hard Materials
ASTM G105	Standard Test Method for Conducting Wet Sand/Rubber Wheel Abrasion Tests
SAE Recommended Practice	Resistance to Abrasive Wear Using Rubber Wheel Abrasion Machine

Consistent Results, Every time.

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 test kits for wet sand and other slurries.

Test Duration & Revolution Counter Timer control system for automatic test shutoff and cycle counter with built-in automatic cutoff (standard).

Utility Requirements:

» 220 VAC, Single Phase, 50/60 Hz

Weights and Dimensions:

Bench Top

Space (L x W x H): 60 x 24 x 40
 Estimated Weight: 615 lbs
 [150 kg]

Shipping

Dimensions (L x W x H): 42" x 36" x 42" [615 lbs]
 31" x 31" x 36" [150 lbs]

Shipping dimensions and weights are typical and subject to change

Standard	Part Number	Description
<i>Test Kits</i>		
ASTM B611	010-560-001	6.65" Steel Wheel and Weights
ASTM G105	010-560-002	7" Rubber Wheel 50, 60, 70 Shore A

<i>Test Wheels</i>		
ASTM G65	010-501-001	9" Rubber Wheel 58, 62 Shore A
ASTM G105	010-501-013	7" Rubber Wheel 68, 72 Shore A
ASTM G105	010-501-012	7" Rubber Wheel 58, 62 Shore A
ASTM G105	010-501-011	7" Rubber Wheel 48, 52 Shore A
ASTM B611	010-501-005	6.65" Steel Wheel

<i>Test Materials and Supplies</i>		
ASTM G65	010-500-001	Reference Test Specimen AISI D-2 Tool Steel, 59 to 60 HRC
ASTM G65	010-500-003	Reference Test Specimen AISI H-13 Tool Steel, 47 to 48 HRC
ASTM G65	010-500-070	Test Sand, AFS 50/70 (50 lb. bag)
ASTM B611	100-599-001	Alumina Oxide, 30 grit (50 lb./bag)

<i>Consumables & Accessories</i>		
		Replacement Sand Nozzle, calibrated (300 to 400 g/min sand flow)
	010-105-031	
	010-041-002	Wheel Dressing Tool
	010-105-003	Paddle Assemblies

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