



Martindale GT-C13 For Testing The Abrasion And Pilling



Application of martindale tester:

The **Martindale Abrasion and Pilling Tester** is the standard method of determining the wear resistance of textiles or leather and the resistance to pilling. Samples are rubbed against known abrasents at low pressures and in continuously changing directions and the amount of abrasion or pilling is compared against standard parameters. Adaptable to test a wide range of applications including textiles, socks, leather, coated upholstery, carpets, wood and shirt collars.

Four models are available, with 4, 6, 8 and 9 Abrading Tables respectively.

Standards of martindale tester:

Abrasion: GB/T 21196.2, GB/T 13775, ISO 12947, ASTM D4966, IWS TM 112, M & S P19, Next 18, SN 198529, TWC 112, JIS L1096

Pilling: GB/T 4802.2, ISO12945-2, ASTM D4970, IWS TM 196, M & S P17, Next TM26, SN 198525

Dimensions

External Dimension:	
≈880*610*410 mm(L*W*H)	
Package Dimension:	
≈900*650*430 mm(L*W*H)	
Gross Weight:	
≈150KG	
Net Weight:	
≈130KG	

Feature of martindale

- 1.Test Standard: Lissajous figure.
- 2.Working positions: 4, 6, 8, 9 optional.
- 3.Counting Method: 1) count up. 2) count down.
- 4.The unique design allows removal of individual sample holders 5.for examination without lifting the top motion plate.
- 6.Standard sample holders with 9 and 12kpa weights included.
- 7.PLC, 7 inches color touch screen, Chinese and English operation interface.
- 8.Weights and key components are made up by 316 stainless steel 9.which is well-formed and durable in use.
10. To prevent distortion, the top motion plate was special made up by 316 aluminum alloy.

Martindale Abrasion Tester Key Specifications

Model	GT-C13B-4	GT-C13B-6	GT-C13B-8	GT-C13B-9
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Working positions	4	6	8	9
Control mode	PLC control and touch screen display			
Counter range	0~999999 times			
Test pressure	Abrasion test	A) Specimen holder: (198 ±2)g		
		B) Larger loading piece: (597±5)g		
	C) The sum mass: (795± 7)g, for workwear, upholstery, bed linen and fabrics for technical use (nominal pressure of 12kpa)			
Test pressure	Abrasion test	A) Specimen holder: (198 ±2)g		
		B) Smaller loading piece: (397±5)g		
	C) The sum mass: (595± 7)g, for apparel and household textiles, excluding upholstery and bed linen (nominal pressure of 9kpa)			
Test pressure	Pilling test	A) Stainless steel loading piece: (155 ± 1) g		
		B) Specimen holder: (260 ± 1)g		
		C) The sum mass: (415± 2)g		
Holder effective diameter	A) Abrasion Holder : $\Phi(28.65 \pm 0.05)$ mm			
	B) Pilling Holder : $\Phi(90 \pm 0.10)$ mm			
Rotational speed	50± 2r/min			
Pressing weight	Mass : (2.5 ± 0.5) kg			
	Diameter: $\Phi(120 \pm 10)$ mm			
Power supply	AC220V 50/60Hz			
Dimensions(L x W x H)	60×55×41cm	88×61×41cm	90×62×41cm	90×62×41cm
Weight	75kg	130kg	145kg	150kg
Standards	Abrasion: GB/T 21196.2, GB/T 13775, ISO 12947, ASTM D4966, IWS TM 112, M & S P19, Next 18, SN 198529, TWC 112,			



JIS L1096, (ISO17076-2 ball plate method, optional)

Pilling: GB/T 4802.2, ISO12945-2, ASTM D4970, IWS TM 196, M & S P17, Next TM26, SN 198525