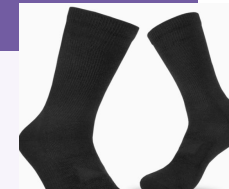




**QUALITY TEST SERVICE GROUP**  
**HAIDA INTL. EQUIPMENT CO.,LTD**

# Sock Testing Proposal Guideline



**Hunan Factory (Yiyang City)**



**Group Headquarters (Dongguan, Guangdong)**



**Guangdong Factory 1**



**Guangdong Factory 2**



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# HD-B617-S Universal Test Machine

## Test Standard:

ASTM D882, ASTM D3759, ASTM D882, ASTM D 638, ISO 527

## Technical Parameters:

1. Load capacity: 5KN
2. Load cell brand: Germany brand TECSIS load cell
3. Motor: 400w Panasonic servo motor
4. Driver: 400w Panasonic servo driver
5. Adjustable speed: 0.1-500mm/min
6. Vertical test space: 1500mm (including clamp)



Model HD-B617-S can be used for sock tensile testing/tear testing etc...

# HD-P306 Martindale Abrasion Tester

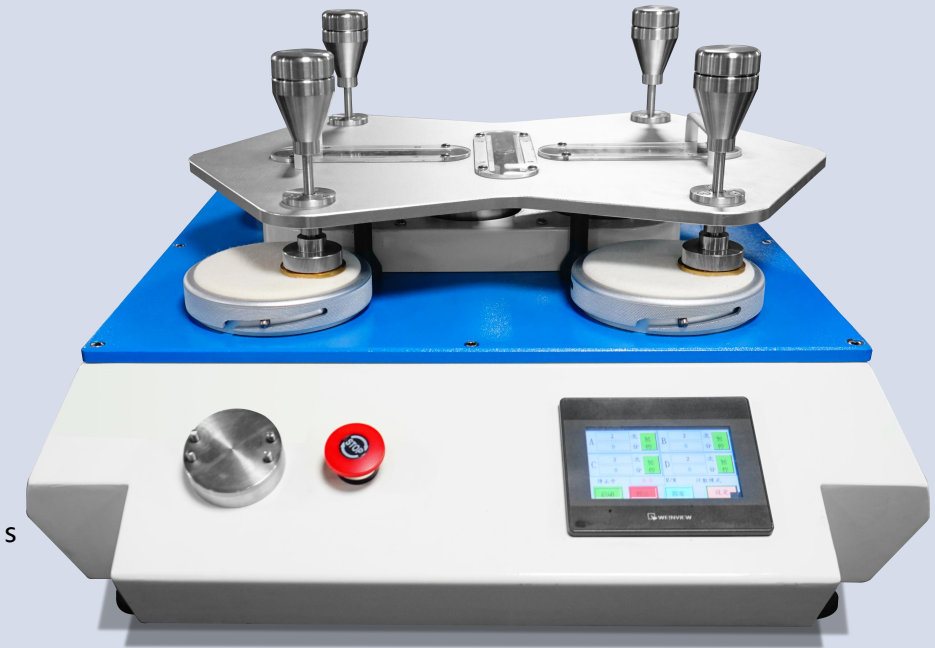
## Test Standard:

ASTM D4970, ISO12945-2 and other pilling degree test;

ASTM D4966, ISO12947 and other fabric abrasion tests.

## Technical Parameters:

1. Count display Projected Count: 0 ~ 999 999 times; Cumulative count: 0 ~ 99 9999 times
2. Maximum stroke  $24 \pm 0.5\text{mm}$ ,  $60.5 \pm 0.5\text{mm}$
3. Loading: a. Holder:  $200 \pm 1\text{g}$  b. Dress material counter weight:  $395 \pm 2\text{g}$   
c. Furnishings/Leather material counter weight:  $594 \pm 2\text{g}$  d. Stainless steel butterfly slice:  $260 \pm 1\text{g}$
4. Abrasion chunk effective rub diameter: A model:  $200\text{g}(1.96\text{N}, 9\text{KPa})$  , abrasion head  $\phi 28.8 - 0.084\text{mm}$
5. Consumables: Baize 4, Testing Cotton 4



Model HD-P306 can be used for sock pilling and abrasion testing



## HD-W820 Automatic Washer

### Test Standard:

ISO 6330-2012, GB/T 8629, FZ/T 70009, IEC 60456

BS 4923 Methods for individual domestic washing and drying for use in textile testing

BS EN ISO 6330 Textiles. Domestic washing and drying procedures for textile testing

### Technical Parameters:

1. Interior drum diameter (51.5±0.5)cm
2. Depth (315±1)cm
3. Lift sheets Numbers: 3pieces, Angle: 120°each one, Height: 53±1
4. Outer drum diameter 554±1mm
5. Rotation Speed: Washing: 52 ± 2r/min

Dehydration: 500 ± 20r/min (Low speed) & 800 ± 20r/min (High Speed)



Model HD-W820 can be used for sock domestic washing and drying for the testing.



## HD-W819 Tumble Dryer

### **Test Standard:**

GB/T 8629, ISO 6330

### **Technical Parameters:**

1. Category: Front feeding, horizontal drum type
2. Drum diameter: 58 ± 1cm
3. Drum volume: 100L
4. Roller speed: 50r/min, 25r/min
5. Enhance the number of films: 3 (distance is 120 °)

Model HD-W819 can be used for sock drying for the testing.



# HD-W804 Rubbing Fastness Tester (Electronic Crock meter)



## Test Standard:

ASTM F1319, AATCC 8/165, BS 1006 D02, GB/T 3920, ISO 105 D02/X12, JIS L0849

## Technical Parameters:

1. Control way Electrical control
2. Diameter of the Rubbing Finger  $16 \pm 0.1$  mm
3. Force on the Finger  $9 \text{ N} \pm 0.2 \text{ N}$  (917.43 gms)
4. Size of Crock Square (5 x 5) cms
5. Center to center Traverse of the Finge  $104 \pm 3$  mm
6. Counter (Re-settable) 1~9999×100



# HD-W810 Air Permeability Tester

## Test Standard:

ASTM D737 Standard Test Method for Air Permeability of Textile Fabrics

ISO 9237 Textiles - Determination of the Permeability of Fabrics to Air

BS 5636, DIN 53887, AFNOR G07-111, EDANA 140.1, ISO 7231, ISO 9073-15, JIS L1096-A

TAPPI T251, WSP 070.1.R3, EDANA 140.2-99

## Technical Parameters:

1. Measuring range: 0.1~12,000 mm/s at 20 cm<sup>2</sup> test area.
2. Measuring accuracy:  $\leq \pm 2\%$
3. Test pressure: 1-4,000 Pa(Nozzle)
4. Test areas: 20cm<sup>2</sup>& 38.5cm<sup>2</sup>(Standard accessories ), 5cm<sup>2</sup>, 50cm<sup>2</sup>, 100 cm<sup>2</sup>(Optional)
5. Sample thickness:  $\leq 12$ mm



Model HD-W810 can be used for sock air permeability testing.



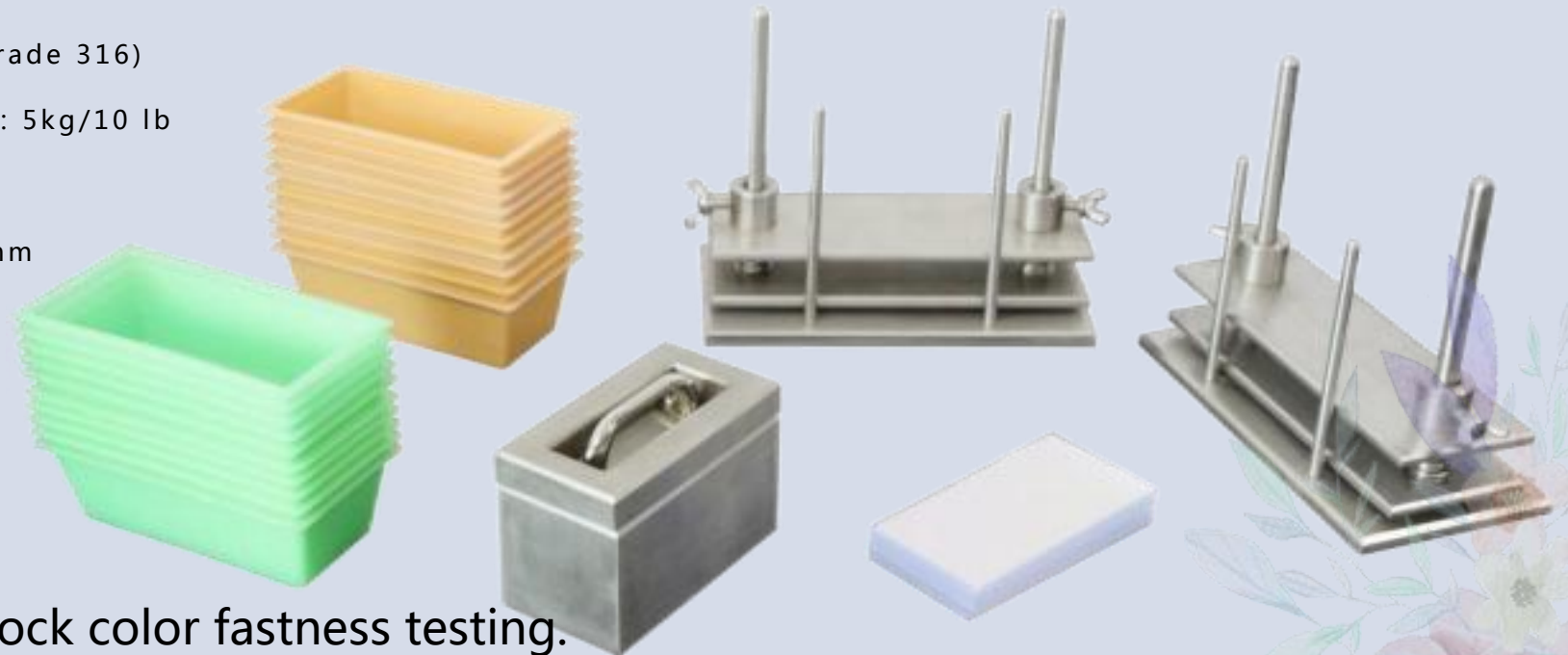
## HD-W809 Color Fastness Perspiration Tester

### Test Standard:

UNI EN ISO 105- E04; BS 1006; BS EN 20105; AATCC 15; IWS TM 175

### Technical Parameters:

1. Frame construction: Special stainless steel (grade 316)
2. Load on the test specimen(as per ISO/AATCC): 5kg/10 lb
3. Size of test specimen: 100x40mm
4. Size of acrylic separator plate(each): 115x60mm
5. Number of separator plates: 21 + 21 No' s



Model HD-W809 can be used for sock color fastness testing.

## HD-W832 Water Cooling Light Fastness Tester

### Test Standard:

Textile: GB/T 8427, GB/T 8430, GB/T 14576, GB/T 16991, GB/T 1865,

GB/T 15102, GB/T 15104, ISO 105-B02, ISO 105-B04, ISO 105- B06, AATCC TM 16

Artificial board: GB/T 15102, GB/T 15104

Automotive interior: ISO 105, ASE J1885KJ, ISO 11341, ISO 4892, ISO 03917, ISO 11341, ISO 4892-2

Leather: PV 1303, PV 3929, PV 3930, DVM 0067-MA, HES D6601

### Technical Parameters:

1. Temperature control range of test chamber: Conventional configuration: 30 ~ 90°C; Resolution: 0.1°C
2. The humidity control range of the test chamber: Light cycle: 20 ~ 70RH%; resolution: 0.1RH%
3. Dark cycle: 30 ~ 95RH%; resolution: 0.1RH%
4. Standard blackboard thermometer (optional): 35 ~ 125°C; Accuracy:  $\pm 1^\circ\text{C}$ ; Resolution: 0.1°C
5. Blackboard thermometer: 35 ~ 120°C; Accuracy:  $\pm 2^\circ\text{C}$ ; Resolution: 0.1°C



# HD-W831 Air Cooling Light Fastness Tester

## Test Standard:

ISO 105-B02 Textiles -Tests for color fastness-Part B02:

Color fastness to artificial light: Xenon arc fading lamp test

ISO 105-B04 Textiles -Tests for color fastness--Part B04:

Color fastness to artificial weathering: Xenon arc fading lamp test

ISO 105-B07 Textiles-Tests for color fastness-Part B07:

Color fastness to light of textiles wetted with artificial perspiration

AATCC TM 16 – Option 3 Colorfastness to Light: Xenon-Arc M&S C9 Colorfastness to Light

M&S C9A Colorfastness to wet light in the presence of alkaline or other chemical

## Technical Parameters:

1. Light Source: 2500W air-cooled xenon arc lamp (recommend replacing lamps every 1500 hours)
2. Test types: Light only, Dark only, Spray only
3. Total Exposure Area: 1370cm<sup>2</sup>
4. Test Positions: 12 (ISO) or 6 (AATCC)
5. Exposure Area of each Test Position: ISO 65.25cm<sup>2</sup> (145 x 45) mm; AATCC 108.75cm<sup>2</sup> (145 x 75) mm



**Thanks for your  
time !**

