

## UTS DYEING AND COLORFASTNESS TESTING GENERAL CATALOG

### ColorFastnes Testing

#### D001 Suntest & Xenon Arc Tester

To do accelerated light fastness tests and photo stability tests. This model is tabletop unit with microprocessor controller for simple operation.

##### Standards

AATCC16, ISO 105 B02



#### D002A Light Fastness Tester(Air-Cooled, High Temperature)

Used in textiles, paint, dye, paint, rubber, plastic, wood and paper material of light fastness, weather fastness, light and perspiration fastness test and aging test. Include such resistance to climate functions of rain, revolution, rotation and mist spray

Rated power of xenon arc lamp: 2.5kw

##### Sample holder quantity:

D002A-1(145×70mm(AATCC) 6 pcs or ISO135x45mm 12pcs)

D002A-2(145×70mm(AATCC) 8 pcs or ISO135x45mm 16pcs)

D002A-3(145×70mm(AATCC) 6 pcs or ISO135x45mm 12pcs)

##### Standards

Textiles: GB/T 8427; GB/T 8430; GB/T 16991; GB/T 14576; ISO 105-B02; ISO 105-B04  
ISO 105-B07; AATCC 16.3; AATCC 125; AATCC 169; AS 2001.4.B02; JIS L0843

Artificial board: GB/T 17657; GB/T 15102; GB/T 15104

Auto interior decoration: SAE J1885; SAE J1960; SAE J2212; SAE J2412; SAE J2527

Others: GB/T 1865; GB/T 16259; GB/T 16422; GB/T 12831; GB/T 2423.24; ISO 11341; ISO4892  
QB/T 2727; ASTM D3451; ASTM D3794; ASTM D6577; ASTM D6695; ASTM G151; ASTM G155  
ASTM G26; ASTM D2565; ASTM D4459; JKS K 5600-7-7



#### D002B Light Fastness Tester(Air-Cooled, High Temperature)

To do color fastness to light and weather test in the color fastness test. Also available for coatings, paper, paint, paint, rubber, plastic, wood, etc.

Rated power of xenon arc lamp: 3300W

Sample clamps: 145×70mm(AATCC) 18 pcs or ISO135x45mm 24pcs

##### Standards

GB/T8427, GB/T14576 GB/T15102-2006 GB/T15104-2006 GB/T8430  
AATCC TM16 ISO105-B04 ISO105-B02



## UTS-3000 Water Cooled Light Fastness Tester

Light Fastness Tester(Water cooled) is designed to simulate light color fastness, light perspiration color fastness and light aging test by conducting solar radiation. Widely applicable for textiles, rubber, paint, coating, plastic, petrochemical industry, car, industrial products and other materials.

Set the inside chamber's such conditions as light irradiance rate, mist spray, temperature, humidity, raining, etc. So as to determine the color fading, aging, alternating light and dark, transmittance, peeling, hardness, softness and other property changes of test materials.

**Rated Power:** 4500W / 6000W

**Exposure Area:** 2660 cm<sup>2</sup> / 4700 cm<sup>2</sup>

**Sample Holders:** ISO:135×45mm 33pcs Or AATCC:100 ×75mm 20pcs  
ISO:135×45mm 47pcs Or AATCC:100 ×75mm 35pcs

### Standards

Textiles: GB/T 8427; GB/T 8430; GB/T 16991; GB/T 14576; ISO 105-B02; ISO 105-B04  
ISO 105-B07; AATCC 16.3; AATCC 125; AATCC 169; AS 2001.4.B02; JIS L0843

Artificial board: GB/T 17657; GB/T 15102; GB/T 15104

Auto interior decoration: SAE J1885; SAE J1960; SAE J2212; SAE J2412; SAE J2527

Others: GB/T 1865; GB/T 16259; GB/T 16422; GB/T 12831; GB/T 2423.24; ISO 11341; ISO4892  
QB/T 2727; ASTM D3451; ASTM D3794; ASTM D6577; ASTM D6695; ASTM G151; ASTM G155  
ASTM G26; ASTM D2565; ASTM D4459; JKS K 5600-7-7



## D003 Manual Crockmeter/Rubber Fastness Tester

Crockmeter is used to determine colour fastness to wet and dry rubbing. Apart from textiles, also can be applicable for carpets, laminates, and printing inks, as well as the micro-scratch resistance of lacquers, coatings and painted surfaces. Provided with a steel specimen holder and 16mm diameter test finger. This device is manual style and equipped with digital counter for counting.

### Standards

ISO105X12; GB/T3920/5712; AATCC8/165; BS1006 D02



## D004 Electronic Crockmeter

Crockmeter is used to determine colourfastness to wet and dry rubbing. Apart from textiles, also available for carpets, laminates, and printing inks, as well as the micro-scratch resistance of lacquers, coatings and painted surfaces. Motorized for frequent use and long run tests, fitted with digital electronic counter with strokes up to 9999.

### Standards

BS 1006 D02; ISO 105×12/D02; AATCC 8 / 165; BS 4655



## D005 Manual AATCC Rotary Vertical Crockmeter

Manual rotary crockmeter is to determine the surface colorfastness to dry or wet rubbing for colored yarn and textiles made from all fibers in the form of yarn or fabric, particularly for the printing textiles with very limit size so that can not be rubbed by standard AATCC Crockmeter.

### Standards

AATCC 116



## D005B Electronic AATCC Rotary Vertical Crockmeter

To determine the colorfastness change after special track of rubbing for textiles, dyes, printing materials.

### Standards

GB/T 29865; AATCC 116; ISO 105 x 16



## D006 Colorfastness/Rubbing (Gakushin) Tester

This model is the special JIS standard resistance to colorfastness tester. Applicable for testing the resistance to colorfastness property of fabrics after rubbing under dry or wet state.

### Standards

JIS L0823, JIS L0849 Type2, JIS L1006, JIS L1084



## D007 Washing Colorfastness Tester

To determine the washing and dry colorfastness resistance property for dyed textile or dyed yarn after washing.

Washing cups:(4+4/6+6/

A(AATCC cup volume): 1200±50ml

B(ISO cup volume): 550±50ml

### Standards

ISO105-C01, C02, C03, C04, C05, C06, C08, C09, C10, D01, E03, E12, GB/T 5711, GB/T3921-1 to 5, GB/T12490 ; AATCC 3, 61, 62, 86, 132, 151, 190, JIS L0860, JIS L0844, JIS L0879; M&S C4A, C5, C37, P3B; BS 1006 NEXT 2,3,5, IWSTM 7,115,177,193, 240, 241; FTMS 191 Method 5610/5622



## D008 Color Matching Cabinets

To do color matching or assessment for all industries and applications where there is a need to maintain color consistency and quality. Such as, Dyeing, Packaging, Printing, Footwear, Inks and Textile, Automotive, Ceramics, Cosmetics, Foodstuffs, Furniture, knitwear, Leather, Ophthalmic, etc.

D65, TL84, CWF, F, UV, U30 light sources are available for this light box.

D008(4)(600mm): D65. TL84. F/A . UV

D008(5)(600mm): D65. TL84. CWF. F/A . UV

D008(6)(600mm): D65. TL84. CWF. F/A . UV. U30

D008(7) (600mm): D65. TL84. CWF. F/A . UV. U30.INCA

D008(12)(1200mm): D65. TL84. CWF. F/A . UV. U30



## D009 Perspiration Tester - Perspirometer

To determine colorfastness to perspiration, water resistance, seawater resistance, saliva resistance for various textiles with color.

### Standards

Perspiration: GB/T3922; AATCC15; ISO105

Seawater: GB/T5714; AATAA107; ISO105

Water: GB/T5713; AATCC106; ISO105

Saliva: GB/ T 18886



## D010A Drying oven/Incubator

Used to dry, bake and preheat various materials or specimen by hot air circulation method to uniform the temperature distribution. Provided for desiccation, torrefaction, wax-melting and sterilization in mining enterprises, laboratories and scientific research institutes

Chamber Volume 30L 50L 80L 136L 220L

### Standard

Perspiration: GB/ T 3922, AATCC 15, ISO105-E04, JIS L 0848

Sea Water: GB/ T5714, ISO105-E02, AATCC107

Water: GB/ T5713, ISO105 E01, AATCC106

Saliva: GB/ T 18886



## D013 Wascator Automatic Shrinkage Tester

Wascator Automatic Washing Shrinkage Tester, used to determine shrinkage property for various fabrics, and slack, felting, shrinkage, durability, pilling to washing for wool fabric after washing by machine.

Test temperature range RT - 99±1°C

### Standards

GB/T8629, FZ/T70009, ISO6330/5077,

M&S P1, P1A, P3A, P12, P91, P99, P99A, P134;

GB/T8630, BS EN25077/26330, IEC 456



## D014 Rotary Tumble Dryer

To rotary tumble dry textile, apparel or other fabrics after shrinkage test.

### Standards

GB/T8629; ISO 6330



## D015 Shrinkage Marking Template

To mark, print and Shrinkage ratio measurement for various textiles during shrinkage testing.

### Standards

GB/T 8629, AATCC 96/99/135/150/179/187, ISO 3759



## D019 Scorch & Sublimation Tester

To determine the textiles resistance to color change or transfer ability on the condition of heating. Simulate textiles under the condition of being ironing and high & humidity in daily life, and assess its dyeing color fastness to sublimation grade.

### Standards

GB/T 5718, GB/T6152, M&S C13, ISO 105-P01, X11

BS 1006, AATCC 92 114 117 133, DIN 54022/54060



## D020 Durawash Garment & Printed Durability Tester

To assess the washing effects on colorfastness of printing parts of textiles and garment with its attachments. Put a certain amount of solution made of water and detergent into this machine, and put sample into it after heated to the preset temperature. Take out sample to do assessment after running for the predetermined time.

### Standards

Marks & Spencer P5, C15



## D032 AATCCC Garment Appearance Assessment Board

Assess fabric appearance, seam leveling and crease retention.

Standards

AATCC 888; AATCC 88C; AATCC 124; AATCC 128;

AATCC 143; AATCC 178; NOXT TM24/TM30



## Dyeing & Finishing Testing

### D018A-1 Laboratory Mini Stenter - Horizontal Type

D018A-1 Laboratory Mini Stenter without steamer, is applicable for garment, dyeing and finishing, chemical and other industries.

It is used to conduct dry, stereotypia, resin treatment baking, pad dyeing baking and thermal fixation tests. So as to obtain correct resin treatment recipe, test dyeing and finishing color changing situation, as well as verify the test results of medicament. Also can be used to fulfill hand-feel sample plate production to get right color and texture sample plate. Additionally, this unit can be applicable to thermosetting color and printing drying.

**Temperature range** 20-250°C



### D018A-2 Laboratory HT Steamer Stenter - Horizontal Type

D018A-2 Laboratory Mini Stenter with steamer, is applicable for garment, dyeing and finishing, chemical and other industries.

It is used to conduct dry, stereotypia, resin treatment baking, pad dyeing baking and thermal fixation tests. So as to obtain correct resin treatment recipe, test dyeing and finishing color changing situation, as well as verify the test results of medicament. Also can be used to fulfill hand-feel sample plate production to get right color and texture sample plate. Additionally, this unit can be applicable to thermosetting color and printing drying.



### D021 Sample Oscillation Dyeing Machine

To do oscillating cultivating test of room temperature dyeing formula & dyestuff test and colorfastness test.

**Beaker Numbers** 12 24

**Beaker Volume** 250ml

**Heating Mode** Electric heating



### D022 Laboratory Padder

Laboratory Padder, as dyeing and finishing padding mangle. Used to determine the dyeing effects of multiple kinds of textiles. Test textiles' suction rate or fabric dyeing, finishing effect and quality detection. Pure cotton, T/C and other chemical fiber fabric can be applicable



### D023 Laboratory Wringer

The tester is suitable for the uniform extrusion removal of excess water on the tested fabric.

#### Standard

ASTMD 394 230-220



### D025 Calendering Machine

Calendering Machine is a laboratory equipment for textile dyeing and finishing process. Applicable for pure cotton, chemical fiber, hessian, wool fabric, blended fabrics to do calendering process. Up and bottom rollers make fabrics produce different gloss and smooth by heating, abrasion and pressure.



## General Environmental Testing

### E001 Programmable Temperature & Humidity Test Chamber

To determine resistance to hot, cold, dry and moisture property for various material. Applicable for products quality management of electronic, electrical appliances, food, vehicles, metals, chemicals, building materials, etc. Provides conditions of temperature form -70degree to +150degree and of humidity form 20% to 98%.

Model	E001-80L	E001-100L	E001-150L	E001-225L	E001-408L	E001-800L	E001-1000L
Inner box volume	80L	100L	150L	225L	408L	800L	1000L
Test chamber size (D*W*H)	40×40×50	40×50×50	50×50×60	50×60×75	60×80×85	80×100×100	100×100×100

(cm)							
Weight(kg)	180	200	250	300	550	960	1100



### E002 Salt Spray Test Chamber

This instrument is mainly to do surface processing for various materials, inc electroplate, inorganic and anti-rust oil, and after anticorrosion treatment, test the corrosion resistance of their products. Widely used in the aerospace industry, automobile electronics, electronic electrician, mobile phone digital, plastic products, metal materials industries.

Model	E002-108	E002-270	E002-480	E002-600	E002-800
Test space size (L x W x H) cm	60 x 40 x 45	90 x 60 x 50	120 x 80 x 60	120 x 100 x 50	160 x 100 x 60
Outside size (L x W x H) cm	103 x 60 x 107	146 x 91 x 128	220 x 120 x 145	220 x 150 x 128	260 x 145 x 155
Test space volume	108L	270L	480L	600L	800L

