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उत्पाद मनअल

Textiles – Viscose Staple Fibres

IS 17266: 2019 के अनुसार

PRODUCT MANUAL FOR
Textiles – Viscose Staple Fibres
ACCORDING TO IS 17266: 2019

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम, 2018 की योजना- I के तहत प्रमाणन के संचालन में अभ्यास और पारदर्शिता के संचालन में पारदर्शिता सुनिश्चित करने के लिए इस उत्पाद मैनुअल का उपयोग सभी क्षेत्रीय / शाखा कार्यालयों और लाइसेंसधारियों द्वारा संदर्भ सामग्री के रूप में किया जाएगा। दस्तावेज़ का उपयोग बीआईएस प्रमाणन लाइसेंस/प्रमाणपत्र प्राप्त करने के इच्छुक संभावित आवेदकों द्वारा भी किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence/certificate.

1.	उत्पाद Product	:	IS : 17266 : 2019
	शीर्षक Title	:	Textiles - Viscose Staple Fibres -Specification
	संशोधनों की संख्या No.of amendments	:	03
2.	नमूना दिशानिर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	Nil
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	NA - Sample of each variety namely : Grey, Spun Shades, Modal, Lyocell should be tested to cover that specific variety. In case ECO mark is to be covered in scope of licence, samples shall be tested for additional requirements for ECO mark.
c)	नमूने का आकार Sample Size	:	2 Kg

3.	परीक्षण उपकरणों का सूची List of Test Equipment	:	Please refer ANNEX - <u>A</u>
4.	निरीक्षण और परीक्षण की स्कीम Scheme of Inspection and Testing	:	Please refer ANNEX - <u>B</u>
5.	एक दिन में संभावित परीक्षण Possible tests in a day		
	Spinning Faults, Whiteness (Berger), Oil pickup, pH, Identification of fibre, Freedom from Defects		
6.	लाइसेंस का दायरा /Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 17266: 2019 with the following scope:		
	Name of the product	Viscose Staple Fibres	
	Variety	Grey/Spun Shades/Lyocell/Modal	
	ECO mark (optional)	With/Without ECO mark	

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ANNEX A

List of Test Equipment

Sl. No.	Tests used in with Clause Reference	Test Equipment
1.	4.1 Identification	Compound microscope (100 - 500 x) Weighing Balance (0- 1 kg/ 0.1 g) Dissecting needles Cross sectioning device Glass slides Cover Glasses Distilled water Phloroglucinol Concentrated HCl Benzene Methanol Ethanol Shirlastain A Filter paper Zinc Chloride Potassium Iodide Iodine Separating funnels Dark Bottle Hot plate (With temperature controller) Detex Neocarmine W Texchrome 80 % H ₂ SO ₄

		Conc HNO ₃ Acetone 90% Phenol/ M cresol Conc . HCl Formic acid Copper Sulphate Ice/Refrigerator Ammonia 76 °TW Caustic soda Pipettes Hydrometer Dessicator Beakers Measuring Cylinders Forceps Micro-Burner Glass rods Light source Black Background
2	4.2 i) Denier Method 1 - Cut Fibre/ Gravimetric Method	Weighing Balance (as above) Level ground/Table of dimension greater than 1x1 m or 1x2m Metallic framework with 25 or 50 subsquares Cutter Forceps Vernier Callipers

		Black Velvet pad Microbalance (LC 5 micro gram) Steel comb (12needles/cm) Magnifying glass Glass slide Provision to hold sample under tension on a rigid base Vibroscope having the following accuracy: a) Applied tensioning force shall be within the range of ± 0.6 percent of the specified value. b) Error in reading of resonance frequency measured or applied shall not exceed ± 0.6 percent. c) Error in reading of vibration length of the fibre shall not exceed ± 0.6 percent. Cutter Forceps Vernier Callipers Black Velvet pad Microbalance (L C - 5 micro gram) Steel comb (12needles/cm) Magnifying glass Glass slide Provision to hold sample under tension on a rigid base
3	4.2 ii) Conditional Tenacity	Tensile testing machine (Constant rate of Extension type or loading type) Tabs Fibre clips Jig

		Adhesive/Cement Distilled water (with non-ionic wetting agent making up 0.1 concentration)
4	4.2 iii) Whiteness (berger)	Reflectometer (having characteristics as per Annex A of IS 1060 Part 4/Sec4) Non fluorescent reference standards and its working standards Black Cavity Distilled water Detergent Brush Dessicator
5	4.2 iv) Length	Velvet pad Tweezers Glass sheet Liquid Paraffin/ suitable oil Vernier/ Measuring tape of range more than the maximum length of fibre Balance
6	4.2 v) Spinning faults	Visual inspection
7	4.2 vi) Shirley Faults	Weighing balance L C 10 mg Shirley Analyser
8	4.2 vii) Moisture	Weighing balance Hot air Oven (110/5 C) Forceps Stainless steel vessels
9	4.2 viii) Oil pick up	Balance Soxhlet apparatus Conical flasks

		Stainless steel vessels Bowls Forceps Petroleum Ether Stop watch Hot air oven Dessciator
10	4.2 ix) pH	Distilled water /Distillation assembly pH meter potassium permanganate Sodium hydroxide Sulphuric acid Potassium Chloride (if deionized water not used) pH buffer solutions (4,7 and/or 9 recommended) Stoppered Glass/PP bottles Mechanical Shaker Beakers(150 ml) Rods Balance (10 mg) 1 L Volumetric Flasks (A grade)
11	4.3 Freedom from defects	UV light Packing Table
12	4.5 Commercial Mass	Balance Air tight Vessels Hot air oven/ventilated air oven
13	General lab conditions Pre conditioning requirements	AC Humidifier

	Conditioning requirements	Dehumidifier Hygrometer Thermometer Hot Air Oven/ Humidity chamber with provisions to control temperature and Relative Humidity

The above list is indicative only and may not be treated as exhaustive.

ANNEX B

Scheme of Inspection And Testing

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare and implement a calibration plan for the test equipments.

2. TEST RECORDS - The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. PACKING AND MARKING - The Standard Mark, as given in the Schedule of the licence, shall be marked on each bale of viscose staple fibres, provided always that the product thus marked conforms to every requirements of the specification.

3.1 Packing and marking shall be done as per the provisions of the Indian Standard. In addition, the following details shall be marked on each bale:-

a) BIS Licence No. CM/L-----.

b) BIS website details i.e. -“For details of BIS certification please visit www.bis.gov.in.

4. CONTROL UNIT – For the purpose of this scheme, a control-unit is defined as the entire quantity of viscose staple fibre, of one variety processed under similar conditions in a single day.

5. LEVELS OF CONTROL - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

5.1 All the production which conforms to the Indian Standards and covered by the licence should be marked with Standard Mark.

6. REJECTIONS – Non-conforming material shall be clearly identified and labeled as “rejection” and it shall be segregated and stored separately by manufacturers in India. Such rejected material shall be disposed of suitably by manufacturers in India in such a way so as to ensure that there is no violation of provisions of BIS Act,2016 and the applicable Quality Control Order. Appropriate records of such rejection shall be maintained

TABLE 1 : LEVELS OF CONTROL

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
4.1	Identification	-	IS 667	R	1	Each control unit	Samples of each variety to be drawn in rotation
4.2	Denier	-	IS 234	R	1	Each Control Unit	-do-
4.2	Conditioned Tenacity	-	IS 235	R	1	Each control unit	-do-
4.2	Whiteness (berger)	-	IS 1060 (Part 4/Sec 4)	R	1	Each Control Unit	-do-
4.2	Length	-	IS 4807	R	1	Each control unit	-do-
4.2	Spinning Faults	-	IS 17266	R	1	Each Control Unit	-do-
4.2	Shirley faults	-	IS 4871	R	1	Each control unit	-do-
4.2	Moisture regain	Annex C	IS 17266	R	1	Each Control Unit	-do-
4.2	Oil pickup	Annex B	IS 17266	R	1	Each control unit	-do-
4.2	pH	-	IS 1390	R	1	Each Control Unit	-do-
4.3	Freedom from defects	4.3	IS 17266	R	1	Every 4 hour	-do-
4.5	Commercial Mass	4.5	IS 17266 - IS/ISO 6741 (Parts 1,2 and 3)	R	1	Each control Unit	-do-
4.4	Additional Requirements for eco mark (optional)		As per table 2 of IS 17266	S	As agreed between purchaser and manufacturer for eco marked material		

Note-1: Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empaneled by the Bureau.

Note-2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval to BO head.