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उत्पाद मैनुअल

**TEXTILES - RESISTANCE TO IGNITION OF UPHOLSTERY FABRICS USED FOR NON-
DOMESTIC FURNITURE – Specification
IS 15768: 2008 के अनुसार**

**PRODUCT MANUAL FOR
TEXTILES - RESISTANCE TO IGNITION OF UPHOLSTERY FABRICS USED FOR NON-
DOMESTIC FURNITURE – Specification
ACCORDING TO IS 15768: 2008**

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम, 2018 की योजना -I के तहत प्रमाणन के संचालन में एकरूपता और पारदर्शिता 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 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 uniformity 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.

1.	मानक संख्या IS No.	:	IS 15768: 2008
	शीर्षक Title	:	TEXTILES - RESISTANCE TO IGNITION OF UPHOLSTERY FABRICS USED FOR NON-DOMESTIC FURNITURE - SPECIFICATION
	संशोधनों की संख्या No. of amendments	:	02
2.	नमूना दिशानिर्देश Sampling Guidelines		
a)	कच्चा माल Raw material	:	No Specific requirement Note: This section indicates the requirements for raw material (if specified in the IS) for which compliance is to be established during Grant of Licence/Change in Scope of Licence/Factory Surveillance
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	Please refer to Annex-A

c)	नमूने का परिमाण Sample Quantity	:	7 Sqm Approx. Note: This section indicates the quantity of the sample of the product and/or the raw material (if applicable), required to be sent to the laboratory for testing, for the purpose of Grant of Licence/Change in Scope of Licence/ Factory Surveillance (incase of market surveillance, effort may be made to procure the required quantity of product sample, as far as possible since raw material sample may not be available in market)
d)	परीक्षण अनुरोध में घोषित किए जाने वाले पैरामीटर Parameters to be Declared in Test Request	:	i. Nature & Composition of upholstery material ii. Length, Width & Mass iii. Hazard Occupancies Note: Apart from the above, any other requirements/parameters may also be declared as per the standard, as applicable.
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer to Annex- B
4.	निरीक्षण और परीक्षण की स्कीम Scheme of Inspection and Testing	:	Please refer to Annex- C
5.	एक दिन में संभावित परीक्षण Possible tests in a day		
	Following test are possible to be carried out in a day, provided that the conditioned samples are available for testing: 1. Ignitability 2. Durability of flame retardant property Note: This section is for the guidance of BIS Certification Officers/Technical Auditors of BIS Authorized Outside Surveillance Agencies (OSAs) during factory inspection to provide readyreference regarding the tests which can be witnessed during the inspection in the factory by the officer/auditor.		
6.	लाइसेंस का दायरा /Scope of the Licence:		
	"Licence is granted to use Standard Mark as per IS 15768: 2008 with the following scope:		
	उत्पाद का नाम Name of the product		TEXTILES - RESISTANCE TO IGNITION OF UPHOLSTERY FABRICS USED FOR NON-DOMESTIC FURNITURE
	Nature & Composition of upholstery material		Polyester/ Cotton blended/Any other Material
	Length, Width & Mass		mm length,mm width &g/m2 mass
	Hazard Occupancies		Low/ Moderate/ High

ANNEX-A
Grouping Guidelines
for Textiles - Resistance to Ignition of Upholstery Fabrics used
for Non- Domestic Furniture as per IS 15768:2008

The following grouping guidelines shall apply for Grant of Licence (GoL)/Change in Scope of Licence (CSoL):

- i. Material and composition of the Upholstery Fabrics may be Polyester/Cotton blended/Any other material.
- ii. Hazard Occupancies may be Low/Moderate/High.
- iii. The manufacturer shall declare the sizes (length x width) of Upholstery Fabrics being manufactured and intended to be covered in the scope of licence.
- iv. The Upholstery Fabrics of the largest size (length x width) sample of each nature and composition of fabric (Polyester/Cotton blended/Any other material) and of each hazard occupancies (Low/Moderate/High) to be drawn and tested to cover all the sizes of particular nature and composition of fabric and of particular hazard occupancy of Upholstery Fabrics in the scope of licence.
- v. Scope of licence shall be restricted based on the manufacturing and testing facilities available.
- vi. During operation of licence, samples of each variety covered in the scope of licence, shall be tested in rotation, to the extent possible.

ANNEX – B
LIST OF TEST EQUIPMENTS
(INDICATIVE LIST, FOR GUIDANCE ONLY)

S. No.	Test used in with Clause reference	Test equipment/Chemical
1.	Ignitability, Cl. 4.1	Mounting frame, Gas burner, Specimen holder, Suitable flat and rigid template, Gas, Timing device
2.	Durability of fire retardant property, Cl. 4.2	Automatic washing machine equipped with a Horizontal rotating drum with reversing action, Soft water, Ballast, Low foaming detergent, Iron or Press
3.	Toxicity index, Cl. 4.3	Toxicity chamber (An airtight enclosure of atleast 1m ³ volume lined with opaque plastic sheeting having a hinged or sliding door, fitted with a transparent plastic panel), Burner, Specimen support, Timing device, Analytical equipment, Gas sampling
4.	Visibility due to smoke released on combustion, Cl. 4.4	Smoke chamber of Height-1000±5mm, Length-750±5mm, Width-750±5mm, Incandescent electric bulb 220V, 100W, Light meter, Plate of non-combustible, fire proof and non-heat conducting material, Stainless steel plate, Burner, Specimen frame, Device for adjusting the distance between the specimen frame and burner
5.	Smouldering Cigarette test, Cl. 4.1, Table-1	A suitable test rig as per Fig. 1 & Fig. 2 of IS 12467 (Part 1):2006, Test enclosure, Clock, Smouldering Cigarette, Conditioning Chamber to maintain Temperature 27±2°C and Relative Humidity-65±2%
6.	Match Flame equivalent test, Cl. 4.1, Table-1	A suitable test rig as per Fig. 1 & Fig. 2 of IS 12467 (Part 2):2006, Test enclosure, Clock, Ignition source, Gas flow control, Conditioning Chamber to maintain Temperature-27±2°C and Relative Humidity-65±2%
7.	Crib test, Cl. 4.1, Table-1	A suitable test rig as per Fig. 1 & Fig. 2 of IS 12467 (Part 1):2006, Test enclosure, Propane-2-ol, Graduated Glass Syringe, Stop clock, Crib ignition sources, Conditioning Chamber to maintain Temperature-25±5°C and Relative Humidity-50±20%

ANNEX C

SCHEME OF INSPECTION AND TESTING

1. QUALITY ASSURANCE PLAN

1.1 It is expected that manufacturers (licensees/applicants) will implement a Quality Assurance Plan i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Assurance Plan defining the control unit (i.e. lot/batch etc.) and the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and submit the same to BIS Branch Office for information. The manufacturer shall comply with the same and maintain test records in accordance with para 2.4.

1.3 RECOMMENDED LEVELS OF CONTROL/CONTROL UNIT

For the guidance of manufacturers, the recommended definition of control unit is: All upholstery fabric pieces/rolls of identical type and composition manufactured in a day, delivered to a buyer against one dispatch note shall constitute a Control unit.

1.3.1 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in **Table 1**.

1.3.2 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan. Alternatively, the manufacturer has the option of adherence to the quality plan as per levels of control recommended in column 3 of Table 1.

1.4 However, all manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard.

2. ENSURING COMPLIANCE THROUGH TESTING- It is expected that manufacturers (licensees/applicants) will establish a suitably equipped and staffed in house laboratory (In house testing facility) for testing at least those parameters of the Indian Standard which require routine testing for ensuring quality of the product. This includes in-process controls as may be defined and put in place by the manufacturer and testing parameters/requirements which can only be performed in the factory.

2.1 For the guidance of manufacturers, Table 1 giving the recommended levels of control is given below. Column 2 of Table 1 indicates routine tests where test equipment is required in house as “R” or other tests which can be subcontracted as “S”. Subcontracting is permitted to BIS recognized/empanelled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025.

2.2 For MSME manufacturers, the requirement of maintaining a laboratory/in-house testing facility for routine tests (indicated as “R” in Column 2 of Table 1) is also optional.

2.2.1 MSME manufacturers may utilize common cluster based facilities as per guidelines for the utilization of cluster based test facilities by MSMEs or the provisions of Sharing of testing facilities or get testing done from BIS recognized/empaneled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025.

2.3 Large Scale manufacturers shall maintain an in-house laboratory equipped at least with test facilities for routine tests (indicated as “R” in Column 2 of Table 1), where different tests given in the specification shall be carried out in accordance with the method given in the specification. They shall also implement a calibration plan for the in-house test equipment.

2.3.1 Alternatively, in lieu of an in-house laboratory, large scale manufacturers can also utilize the provisions of Sharing of testing facilities as per the Guidelines for Grant of Licence available on BIS website www.bis.gov.in. (Under Conformity Assessment>Product Certification Process). Even for subcontracted tests, provisions for sharing of testing facilities can be utilized.

2.4 TEST RECORDS- The manufacturers maintaining an in-house laboratory or utilizing common cluster based facilities or shared test facilities shall maintain test records for the tests carried out to establish conformity. For the tests being subcontracted to BIS recognized/empanelled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025, test reports issued by the laboratories shall be available for inspection by BIS.

3. PACKING AND MARKING – The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on each piece of upholstery fabric material, provided always that the material so marked conforms to each requirement of the specification.

3.1 Packing and Marking shall be done as per the Indian Standard.

3.2 Additional Marking requirements: The material shall also be marked with the following additional requirement each piece of upholstery fabric material:

a) “For BIS certification details please visit www.bis.gov.in”

4. REJECTION - All the production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the Standard Mark. Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

TABLE 1
(ONLY FOR GUIDANCE PURPOSE)

(1)				(2)	(3)		
Test Details					Levels of Control		
Clause	Requirement	Test Method		Test equipment requirement R: Required (or) S: Subcontracting permitted	No. of Samples	Frequency	Remarks
		Clause	Reference				
4.1	Ignitability	4.1 & 4.1.1	IS 15612 (Part 1) & IS 15589	R	One	Each Control Unit	
4.2	Durability of flame retardant property	4.2	Annex-C of Amendment 1 to IS 15768	R	One	Each Control Unit	
4.3	Toxicity index	4.3	Annex-D of Amendment 1 to IS 15768	S	One	Once in 6 months	To be carried out whenever there is change in raw material/Composition/supplier.
4.4	Visibility due to smoke released on combustion	4.4	IS 15782	S	One	Once in 6 months	
4.1, Table 1	Smouldering Cigarette test	4.1	IS 12467 (Part 1)	S	One	Once in a month	
Cl. 4.1, Table 1	Match Flame equivalent test	4.1	IS 12467 (Part 2)	S	One	Once in a month	
Cl. 4.1, Table 1	Crib test	4.1	Annex-B of IS 15768	S	One	Once in a month	