



www.bis.gov.in

उत्पाद मैनुअल

**TEXTILES - ROUNDSLINGS MADE OF MAN-MADE FIBRES FOR GENERAL SERVICE-
SPECIFICATION**

IS 11928: 2023 के अनुसार

**PRODUCT MANUAL
FOR TEXTILES - ROUNDSLINGS MADE OF MAN-MADE FIBRES FOR GENERAL SERVICE
- SPECIFICATION
ACCORDING TO IS 11928: 2023**

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 11928 : 2023
	शीर्षक Title	:	TEXTILES - ROUNDSLINGS MADE OF MAN-MADE FIBRES FOR GENERAL SERVICE - SPECIFICATION
	संशोधनों की संख्या No. of amendments	:	01
2.	नमूना दिशानिर्देश Sampling Guidelines		
a)	कच्चा माल Raw material	:	Raw material shall be conforming to the requirements specified in clause 4.1.1, 4.2.1, 4.2.3, 4.3.1 & 4.4.1 of IS 11928: 2023. Conformity of materials to the requirement of the specification may be established through either of the following or a combination of the same (No testing is required if the material is ISI marked): Test report from a laboratory recognized by the Bureau/ Government laboratories empanelled by the Bureau/NABL accredited laboratories; Material supplier's test certificate; In-house factory test report.

		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	: 05 Nos. 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 (in case 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. Type of material ii. Working Load Limit for the sling in Basic Configuration 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	
	All tests are possible to be carried out in a day. 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 ready reference 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 11928: 2023 with the following scope:	
	Name of the product	TEXTILES - ROUNDSLINGS MADE OF MAN-MADE FIBRES FOR GENERAL SERVICE
	Type of material	a) Polyamide (nylon) b) Polyester c) Polypropylene
	Working Load Limit for the sling in Basic Configuration	1/2/3/4/5/6/8/12

ANNEX-A

GROUPING GUIDELINES

1. Roundslings made up of following 3 materials have been covered in the standard:
 - a) Polyamide (nylon)
 - b) Polyester
 - c) Polypropylene
2. Further, Following Working Load Limit for the sling in their Basic Configuration have been defined in the standard:
 - a) 1
 - b) 2
 - c) 3
 - d) 4
 - e) 5
 - f) 6
 - g) 8
 - h) 12
3. Considering the above, following grouping guidelines have been prepared for GOL/CSOL:
 - i. Samples of slings made up of each type of material (i.e. Polyamide (nylon)/ Polyester/ Polypropylene) intended to be covered in the scope of licence shall be drawn and tested.
 - ii. Further, sample of roundslings having minimum and maximum Working load limit (1/2/3/4/5/6/8/12) shall be drawn and tested to cover all the roundslings having Working load limits in between (and including the working load limits tested), as per Table 1 of IS 11928: 2023 in the scope of licence.
 - iii. Scope of licence shall be restricted based on the manufacturing and testing facilities available.
 - iv. 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)

Sl. No.	Tests Used In With Clause Reference	Test Equipment/Chemical
1	Breaking Load, clause 4.3.1 & 4.4.1	Tensile testing machine, Conditioning chamber
2	Proof testing, working load limit, maximum safe working load, safety factor, clause 4.5, 4.6, 4.7 & 4.8	Tensile testing machine (having a constant rate of traverse of straining head not exceeding 250 mm per minute), Conditioning chamber

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:

1.3.1 For the guidance of manufacturers, the recommended definition of control unit is: all the roundslings having same working load limit & manufactured using same raw material under similar conditions of manufacturing in a day.

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

1.3.3 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 roundsling, 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 on each roundsling:

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)

TEST DETAILS				Test equipment requirement R: required (or) S: Subcontracting permitted	LEVELS OF CONTROL		REMARKS
Clause	Requirements	Test Method			No. of Samples	Frequency	
		Clause	Reference				
4.1	Core						
4.1.1	Material	4.1.1	IS 11928	S	1	Each Consignment	
4.1.2	Construction	4.1.2	IS 11928	R	Firm to have adequate in-process controls to check compliance of this parameter as per the requirements specified in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity.		
4.2	Protective Outer Cover						
4.2.1	Material	4.2.1	IS 11928	R	1	Each Consignment	
4.2.2	Construction	4.2.2	IS 11928	R	Firm to have adequate in-process controls to check compliance of this parameter as per the requirements specified in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity.		
4.2.2.1		Load Bearing Function	4.2.2.1	IS 11928	R	1	Each Control Unit
4.2.3	Sewing	4.2.3	IS 11928	R	1	Each Control Unit	
4.2.4	Dimension	4.2.4	IS 11928	R	Firm to have adequate in-process controls to check compliance of this parameter as per the requirements specified in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity.		
4.2.5	Colour Coding	4.2.5	IS 11928	R			
4.3	Coupling Components	4.3	IS 11928	S	1	Each Consignment	
4.4	End Fittings	4.4	IS 11928	S	1	Each Consignment	
4.5	Proof Testing of Coupling Components and End Fitting	4.5 & 5.3	IS 11928	R	1	Each Control Unit	
4.6, 5.2	Working Load Limit	4.6 & 5.2	IS 11928	R	1	Each Control Unit	

4.7	Safe Working Load	4.7	IS 11928	R	1	Firm to have adequate in-process controls to check compliance of this parameter as per the requirements specified in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity.
4.8	Safety Factor	4.8	IS 11928	R	1	