

**केन्द्रीय मुहर विभाग-2**

हमारा संदर्भ : के.मु.वि.-2/16: 5175

11 04 2018

**विषय: आई एस 5175:2014 की संशोधित एस टी आई**

1. आई एस 5175:2014 की संशोधित एस टी आई अवलोकन हेतु संलग्न है।

(आदित्य दास)  
वैज्ञानिक सी (सी एम डी-2)

**प्रमुख (के.मु.वि.-2)**

सभी क्षेत्रीय/शाखा कार्यालयों/टी एक्स डी को परिचालित  
आई टी एस विभाग - बीआईएस इंटरनेट पर अपलोड करने के लिए

**CENTRAL MARKS DEPARTMENT-2**

Our Ref: **CMD-2/16: 5175**

**11 04 2018**

**Subject: Revised STI for IS 5175:2014**

1. Please find enclosed revised STI for IS 5175:2014 for kind consideration.

(Aditya Das)  
Sc. 'C' (CMD-2)

**Head (CMD-2)**

**Circulated to all ROs/BOs/TXD**

**Copy to: ITS for hosting on BIS Intranet**

**SCHEME OF TESTING AND INSPECTION  
FOR CERTIFICATION OF  
FIBRE ROPES – POLYPROPYLENE SPLIT FILM,  
MONOFILAMENT AND MULTIFILAMENT (PP2) AND  
POLYPROPYLENE HIGH-TENACITY  
MULTIFILAMENT (PP3) -3-,4-,8- AND 12-STRAND  
ROPES ACCORDING TO IS 5175:2014  
(Third Revision)**

**1. LABORATORY**

- 11** A laboratory shall be maintained, which shall be suitably equipped and staffed, where different tests given in the specification shall be carried out in accordance with the method given in the Indian Standard.
- 12** All testing equipments shall be periodically checked, verified and calibrated and records of such checks/verification/calibration shall be maintained.

**2. TEST RECORDS**

- 21** All records of the tests as per this Scheme of Testing and Inspection shall be kept in suitable forms. (See form I annexed)
- 22** Copies of any such records that may be required by BIS shall be made available at any time on request.

**3. QUALITY CONTROL**

- 31** It is recommended that, as far as possible, Statistical Quality Control (SQC) methods may be used for controlling the quality of the product during production as envisaged in this Scheme [See IS 397 (Various parts)].
- 32** In addition, efforts should be made to gradually introduce a Quality Management System in accordance with IS/ISO 9001.

**4. STANDARD MARK**

- 41** The standard mark as give in column (1) of the First Schedule of the licence shall be marked on the labels attached at both ends of each coil of polypropylene rope provided always that the rope in each coil to which this mark is applied conform to every requirement of the specification. The standard mark shall also be marked on each package containing such ropes.

## **5. MARKING**

- 51** The identification of the material, quality and origin of a fibre rope conforming to this International Standard shall be marked using a tape placed within the article (see 5.3) so as to remain recognizable despite soiling, soaking or discoloration during use. The tape shall be at least 3 mm wide, and shall be printed with the number of the relevant International Standard, and a reference identifying the manufacturer. The maximum distance between two consecutive markings shall be 0.5 m.
- 52** Ropes of reference number less than 14 do not need to be marked, unless specified in a product standard.
- 53** For Ropes of reference number equal to or greater than 14, a marker tape as defined in 5.1 shall be incorporated into the centre of one strand for 3-, 4-, 8- and 12-strand ropes. Double-braided ropes shall have a marker tape in or outside the core. For covered ropes, the marking tape shall be incorporated between the cover and the core or within the core.
- 54** Each coil shall have a label, which is firmly fixed in place, giving the following information:
- Constituent material;
  - Identification of manufacturer (Manufacturer's name, address and trade-mark, if any) and country of origin;
  - Reference number;
  - Delivered length (in metres);
  - declaration of conformity to this International Standard
  - Batch Number/Control Unit No.;
  - Month and year of manufacture;
  - Any other information as required by the law in force;
  - Licence No. (CM/L.....)
  - BIS website details: [www.bis.gov.in](http://www.bis.gov.in)

## **55 PACKAGING, INVOICING AND DELIVERED LENGTH**

### **5.5.1 Packaging and invoicing**

- The packaging unit may be a reel, a coil, a hank, a box, a bag or as specified by the purchaser.
- The finished rope shall be supplied in a package, so that it can be dispensed freely without entanglement of any kind.
- Either the unit mass or the length may be used to invoice the rope. When the gross mass is used for invoicing, the mass of the packaging shall not exceed 1.5 % of the gross mass of the rope.

### **5.5.2 Delivered length**

#### **5.5.2.1 Standard delivered length**

- The length of the coil shall be determined by dividing the mass of the coil by the mass per metre of the rope, determined in accordance with ISO 2307.
- The limit deviation on delivered length shall be  $-5\%$  for ropes with a reference number less than or equal to 14, or  $-3\%$  for ropes with a reference number greater than 14, on condition that the gross mass corresponding to the delivered length is not less than the product of the minimum linear density and the theoretical delivered length.

c) Standard delivered lengths are the following: 100 m; 183 m; 200 m; 220 m; 366 m. Other lengths may be supplied for special orders.

### **5.5.3. Shorter delivered length due to sampling**

To carry out testing at the request of the purchaser, test pieces may be taken from the ordered length of rope. The length of rope delivered shall then be less than the ordered length because of these test pieces (which are considered to be part of the delivery). In the event that a specific length is required and testing is required, the purchaser may be invoiced the additional length or mass of the rope required to perform such testing.

## **6. LEVELS OF CONTROL**

**6.1** Inspection and tests at various levels of control specified in Table 1 shall be carried out on all quantities of polypropylene ropes intended to be covered under this scheme and appropriate records as per para 2 and charts as per para 3 of this STI shall be maintained. All production which conforms to the Indian Standard and covered by the licence shall be marked with BIS Standard Mark.

## **7 CONTROL UNIT**

**7.1** For the purpose of this scheme, the total quantity of rope of one type and one reference number manufactured in a day from the same batch of yarn shall constitute a control unit.

## **8 REJECTION**

**8.1** A separate record shall be maintained giving information relating to the rejection of ropes which do not conform to the specification and the method of their disposal. Such material shall in no case be stored together with that conforming to the specification. The standard mark (if already applied) on rejected materials shall be defaced.

## **9 SAMPLES**

**9.1** The licensee shall supply, free of charge, the samples required in accordance with the Bureau of Indian Standards (Certification) Regulations from the factory or godown. BIS may draw samples from the open market, if available.

## **10 REPLACEMENT**

**10.1** Whenever a complaint is received soon after the goods with Standard Mark have been purchased and used, and if there is adequate evidence that the goods have not been misused, defective goods or their components are replaced or repaired free of cost by the licensee in case the complaint is proved to be genuine and the warranty period (where applicable) has not expired. The final authority to judge the conformity of the product to the Indian Standard shall be with the Bureau.

- 102** In the event of any damages caused by the goods bearing the standard mark, or any claim being filed by the consumer against BIS Standard Mark and not “conforming to” the relevant Indian Standard, entire liability arising out of such non-conforming product shall be of the licensee and BIS shall not in any way be responsible in such cases.

## **11 STOP MARKING**

- 111** The marking of the product shall be stopped under intimation to the Bureau if, at any time, there is some difficulty in maintaining the conformity of the product to the specification, or the testing equipment goes out of order or due to any other reason. The marking may be resumed as soon as the defects are removed under the intimation to BIS.
- 112** The marking of the product shall be stopped immediately if directed to do so by BIS for any reason. The marking may then be resumed only after permission by BIS. The information regarding resumption of markings shall also be sent to BIS.

## **12 PRODUCTION DATA**

- 121** The licensee shall send to BIS a statement of quantity produced, marked and exported by him and the value thereof at the end of each operative year of the licence as per the enclosed proforma (Annex 1) which has to be authenticated by a Chartered Accountant.

**IS 5175:2014**  
**FIBRE ROPES – POLYPROPYLENE SPLIT FILM, MONOFILAMENT AND**  
**MULTIFILAMENT (PP2) AND POLYPROPYLENE HIGH-TENACITY MULTIFILAMENT**  
**(PP3) -3-,4-,8- AND 12-STRAND ROPES ACCORDING TO IS 5175:2014**

**Table 1 LEVELS OF CONTROL**  
**(Para 7.0 of the Scheme of Testing and Inspection)**

<b><u>TEST DETAILS</u></b>		<b><u>LEVELS OF CONTROL</u></b>			<b><u>REMARKS</u></b>	
<b>Clause.</b>	<b>Requirement</b>	<b>Test Method</b>		<b>No. of Sample</b>		<b>Frequency</b>
		<b>Clause</b>	<b>Reference</b>			
5.1	Construction	5.1	IS 5175:2014	All ropes	Each Control unit	
6.0	Linear Density	6	IS 5175:2014	Three ropes	Each control unit	
6.0	Minimum breaking force	6	IS 5175:2014	Three ropes	Each control unit	



**ANNEX I****PROFORMA FOR OBTAINING PRODUCTION DETAILS**

Period covered	
Name of Licensee CM/L No.	
Name of Articles (s)	IS No.
Grade/Type/Size/Variety/Class/Rating	
Brand/Trade/Name(s) of Product covered under BIS Certification Mark	
Total production of the articles(s) licensed for certification marking	
Total production of the article(s) conforming to Indian Standard	
Production covered with BIS Certification Mark and its Value :	
a) Quantity b) Value (Rs.)	
Brand Name used on production covered under BIS Certification Mark	
Calculation of marking fee on unit-rate basis; Marking Fee per unit	
a) Unit*	
b) Quantity covered with BIS Certification Mark	
c) Marking fee rounded off in whole rupees as obtained by applying unit rates given in (a) on quantity given in (b)	
Quantity not covered with BIS Certification Mark, if any.	
Reasons for such non-coverage	
Brand Name under which non-ISI goods were sold	
Quantity exported with BIS Standard Mark and its value	
Brand Name under which BIS Certified goods are exported	
Authentication by Chartered Accountant	

**Note:** In case a clause is not applicable, suitable remarks may be given against it.

\*Information to be filled up by BO before forwarding to the licensee.