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मंत्रालय द्वारा अनुमोदित
Approved by Ministry of Defence
Vide letter No.
Dated dated



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Min of Defence, New Delhi

रक्षा मंत्रालय
MINISTRY OF DEFENCE

ज्वाइंट सर्विस स्पेसिफिकेशन
JOINT SERVICES SPECIFICATION

ON

TAPE, NYLON, DYED / UNDYED
(DS cat No.8315 - 000 257 to 000 268)

मानकीकरण निदेशालय
रक्षा उत्पादन विभाग
रक्षा मंत्रालय
'एच' - ब्लॉक, निर्माण भवन डाकघर
नई दिल्ली - 110 011

DIRECTORATE OF STANDARDISATION
DEPARTMENT OF DEFENCE PRODUCTION
MINISTRY OF DEFENCE
'H' - BLOCK, NIRMAN BHAVAN, P.O.
NEW DELHI - 110 011

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17/5/15
17/07/14
SSC
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(STORES STANDARDISATION SUB-COMMITTEE)

17/07
Ministry of Defence, New Delhi

Amendment - 1 April 2015

The following Amendments are approved:

No. of sheet : (One)
Authority : As shown in col.4

| JSS& Year | Nomenclature | Details of Amendment | Authority for Amendment | | | | | | | | | | | | |
|--|--|--|-------------------------|-----|--|-------------|--|--|------------|-----|---------------------|-------------|------|--|--|
| 1 JSS 8315-06:2014 (Revision No.2) | 2 Tape, Nylon, Dyed /Undyed (DS Cat No.8315-000 257 to 000 268) | 3 (1) Page No 3, Sub Clause 2.1 at Srl No. (a), Column No. (3) Under the heading Related Specification as under:- <table border="1"> <tr> <td><u>FOR</u></td> <td>(a)</td> <td>Test for Colour Fastness Part C10 :Colour Fastness to washing with soap or soap and soda</td> </tr> <tr> <td><u>READ</u></td> <td></td> <td>Methods for determination of Colour Fastness of textile materials to washing. Test No.C (3)</td> </tr> </table> (2) Page No 6, Sub Clause 9.1 under the heading Quality Assurance at Srl No. (m) (ii) Column (4) under the heading methods (Refer to) : <table border="1"> <tr> <td><u>FOR</u></td> <td>(m)</td> <td>IS/ISO 105-C10:2006</td> </tr> <tr> <td><u>READ</u></td> <td>(ii)</td> <td>IS/ISO 105- C10:2006 Test No. C (3)</td> </tr> </table> | <u>FOR</u> | (a) | Test for Colour Fastness Part C10 :Colour Fastness to washing with soap or soap and soda | <u>READ</u> | | Methods for determination of Colour Fastness of textile materials to washing. Test No.C (3) | <u>FOR</u> | (m) | IS/ISO 105-C10:2006 | <u>READ</u> | (ii) | IS/ISO 105- C10:2006 Test No. C (3) | 4 CQA(T&C) Kanpur G/8104/Adopted JSS/TC-3 dt 13/10/14 |
| <u>FOR</u> | (a) | Test for Colour Fastness Part C10 :Colour Fastness to washing with soap or soap and soda | | | | | | | | | | | | | |
| <u>READ</u> | | Methods for determination of Colour Fastness of textile materials to washing. Test No.C (3) | | | | | | | | | | | | | |
| <u>FOR</u> | (m) | IS/ISO 105-C10:2006 | | | | | | | | | | | | | |
| <u>READ</u> | (ii) | IS/ISO 105- C10:2006 Test No. C (3) | | | | | | | | | | | | | |

RECORD OF AMENDMENTS

| Amendment | | Amendment pertains to: Sl. No. / Para No. / Column No. | Authority | Amended by | Signature & Date |
|-----------|------|--|-----------|--|---------------------|
| No. | Date | | | Name & Appointment (IN BLOCK LETTERS) | |
| | | | | | |

Handwritten signature
Director (T.C.)
Director General of Ordnance
Director General of Ordnance
Director General of Ordnance

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0. **FOREWORD**

- 0.1 This specification has been prepared by the Stores Standardisation Sub Committee on the authority of Standardisation Committee, Ministry of Defence.
- 0.2 This specification has been approved by the Ministry of Defence and is mandatory for use by the Defence Services.
- 0.3 (a) This JSS was prepared in the year Dec 1981.
(b) First revision was done in the year 1998 & Reaffirmed - 2008.
(c) This specification is a revision of JSS 8315 - 06 : 1998 (Revision No.1), Reaffirmed - 2008 and supersedes the same.
- 0.4 This specification would be used to Guide, Design, Manufacture, Quality Assurance and Procurement of the item.
- 0.5 Quality Assurance Authority for the item covered by this specification is CQA (T & C), Kanpur and DQAS (Aero), New Delhi for Army and Air Force respectively. Enquiries regarding technical parameters shall be addressed to the Quality Assurance Authority, while other enquiries shall be referred to :

The Director,
Directorate of Standardisation,
Ministry of Defence,
'H' Block, Nirman Bhavan PO,
New Delhi - 110 011

- 0.6 Non - registered users can obtain the following on payment :

(a) **Copies of IS from :**

Bureau of Indian Standards,
Manak Bhavan,
9, Bahadur Shah Zafar Marg,
New Delhi - 110 002
or
their regional / branch offices

(b) **Copies of JSS / JSG from :**

The Director,
Directorate of Standardisation,
Standardisation Documents Centre
Ministry of Defence
Room No.05, 'J' Block, Nirman Bhavan PO,
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JSS 8315 - 06 : 2014
(Revision No. 2)

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भारतीय प्रमाणिकी विभाग
Joint Director (P.O.)
भारतीय प्रमाणिकी
Directorate of Standardisation
भारत

0.7 Indian Standard (IS) specifications are available free of cost for registered users on :

Directorate of Standardisation Website
www.ddpdos.gov.in
for registration visit our website.

0.8 This specification holds good only for the supply order for which it is issued.

0.9 Directorate of Standardisation Website. All the approved JSSs / JSGs are available on the Directorate of Standardisation Website www.ddpdos.gov.in Defence organisations desirous of accessing a copy of this document are requested to approach the Directorate of Standardisation for obtaining user id / password to access the website.

1. **SCOPE**

1.1 This specification covers the requirements of Tape, Nylon, Dyed / Undyed in various sizes used in the manufacture of personnel parachutes and other aerial delivery equipments.

2. **RELATED SPECIFICATIONS**

2.1 Reference is made in this specification to:

| Sl. No. | Specification / Document No. | Nomenclature |
|---------|---|---|
| (a) | IS / ISO 105 - C 10 : 2006 | Textiles - Tests for Colour Fastness : Part C10 : Colour Fastness to Washing with Soap or Soap and Soda |
| (b) | IS 832 : 1985 (First Revision) Reaffirmed - 2010 Amd - 2 | Methods for Determination of Twist in Yarn |
| (c) | IS 1315 : 1977 (First Revision) Reaffirmed - 2010 Amd - 1 | Method for determination of linear density of yarns spun on cotton system |
| (d) | IS 1390 : 1983 (First Revision) Reaffirmed - 2009 | Methods for determination of pH value of aqueous extracts of textile materials |
| (e) | IS 1398 : 1982 (Second Revision) Reaffirmed - 2009 Amd - 1 | Specification for Packing Paper Water Proof, Bitumen - Laminated |
| (f) | IS 1912 : 1984 (Second Revision) Reaffirmed - 2011 Amd - 1 | Specification for Country Jute Twine |
| (g) | IS 1954 : 1990 (Second Revision) Reaffirmed - 2007 | Determination of Length and Width of Woven Fabrics - Methods |

| Sl. No. | Specification / Document No. | Nomenclature |
|---------|--|---|
| (j) | IS 1963 : 2004 (Second Revision) Reaffirmed - 2008 | Methods for Determination of Threads per Unit Length in Woven Fabrics |
| (k) | IS 1964 : 2001 (Second Revision) Reaffirmed - 2010 | Textiles - Methods for determination of Mass per unit length and mass per unit area of fabrics |
| (l) | IS 1969 : 1985 (Second Revision) Reaffirmed - 2010 Amd - 1 | Methods for Determination of Breaking load and Elongation of Woven Textile Fabrics |
| (m) | IS 2454 : 1985 (First Revision) Reaffirmed - 2013 Amd - 1 | Methods for determination of colour fastness of textile materials to artificial light (xenon lamp) |
| (n) | IS 2500 : Part 1 : 2000 (Third Revision) Reaffirmed - 2011 Amd - 1 | Sampling Procedure for Inspection by Attributes : Part 1 : Sampling schemes Indexed by Acceptance Quality Limit (AQL) for Lot - by - Lot Inspection |
| (o) | IS 2508 : 1984 (Second Revision) Reaffirmed - 2008 Amd - 3 | Specification for Low Density polyethylene Films |
| (p) | IS 2771 : Part 1 : 1990 (Second Revision) Reaffirmed - 2008 Amd - 3 | Corrugated Fibreboard Boxes - Specification : Part 1 : General Requirements |
| (q) | IS 4905 : 1968 Reaffirmed - 2011 Amd - 1 | Methods for random sampling |
| (r) | IS 10106 : Part 3 / Sec 1 : 1984 Reaffirmed - 2009 | Packaging code : Part 3 : Ancillary materials : Section 1 : Cushioning materials |
| (s) | JSS 8135 - 10 : 2004 (Revision No. 1) Reaffirmed - 2011 Amd - 1 | Polypropylene Strapping, 12 mm wide |

उद्योग निबंधक (सफाई)
Asst. Director (T.C.)
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Directorate of Standards
एन.ए.सी. रोड, कानपुर
No. of the office, Kanpur

3. **STANDARD PATTERN**

3.1 The Standard pattern of Tape, Nylon, Dyed / Undyed held in the custody of the Controllorate of Quality Assurance (Textiles & Clothing), Post Box No. 294, Kanpur - 208 004 shall constitute the standard as regards any particulars or properties not noted or defined in this specification.

4. **MATERIAL**

4.1 The basic material of yarn shall be Nylon type '6' or '66'. The yarn for both wrap and weft shall be bright, multifilament of high tenacity and of 23 tex.

5. **MANUFACTURE**

5.1 The single and folded yarns shall be evenly twisted. The tape shall be evenly woven under suitable tension. The edges of the tape shall be firm and regular.

5.2 The dyed tapes shall be manufactured either by use of dyed yarn in the weaving or by dyeing the tapes. The yarn or tapes shall be dyed with disperse or acid type dye. Metallised or chromic dyes shall not be used.

5.3 The yarns used for both wrap and weft shall be twisted together (plied) in one operation.

6. **DIMENSIONS AND OTHER DETAILS**

6.1 Tape, Nylon, dyed / undyed shall conform to the essential particulars given in Appendix 'A'.

7. **WORKMANSHIP AND FINISH**

7.1 The Tape shall be free from weaving defects. When laid on a flat even surface, the tape shall be in a straight line without any application of tension.

8. **MARKING**

8.1 Each roll shall be suitably attached with a label. The label shall legibly and indelibly marked with the manufacture's name, initials or recognised trade mark, year of manufacture, length of roll, nomenclature and the DS Cat Number of the store.

9. QUALITY ASSURANCE

9.1 Examination of the samples taken from any portion of a consignment shall show that the tapes conform to the following requirements when tested as per method mentioned against each :

| Sl. No. | Tests | Requirements | Methods(Refer to) |
|---------|---|--|--|
| (1) | (2) | (3) | (4) |
| (a) | Length | 100 m or as ordered | IS 1954 : 1990 |
| (b) | Width | As per Col. 2 of Appendix 'A' | IS 1954 : 1990 |
| (c) | Thickness | As per Col.3 of Appendix A | Appendix 'B' |
| (d) | Mass in 'g' per 100 m | As per Col 8 of Appendix 'A' | IS 1964 : 2001 |
| (e) | Picks per dm | As per Col.5 of Appendix 'A' | IS 1963 : 2004 |
| (f) | Total No. of end in full width, Min | As per Col.4 of Appendix 'A' | IS 1963 : 2004 |
| (g) | No. of folds of yarn Warp Weft | As per Col.6 of Appendix 'A' As per Col.7 of Appendix 'A' | IS 1315 : 1977 |
| (h) | Turns per metre | 100 | IS 832 : 1985 |
| (j) | Breaking load (on full width x 20 cm) | As per Col.9 of Appendix 'A' | IS 1969 : 1985 |
| (k) | Elongation at break, percent, Min | 18 | IS 1969 : 1985 |
| (l) | pH value of aqueous extract | 6.0 to 8.5 | IS 1390 : 1983 (cold method) |
| (m) | Dye fastness (i) To light (ii) To washing | Class 5 or better Rating 4 or better | IS 2454 : 1985 IS / ISO 105 - C 10 : 2006 |
| (n) | Linear density of yarn | As per Col.12 & 13 of Appendix 'A' | IS 1315 : 1977 |

10. PRE - INSPECTION OF STORES / CONSIGNMENT

10.1 Manufacturers / contractors must satisfy themselves that the stores are in accordance with the terms of the contract and fully conform to the required specification by carrying out a thorough pre - inspection of each lot before actually tendering the same for inspection to the Quality Assurance Officer nominated under the terms of the contract. A declaration by the contractor that necessary pre - inspection has been carried out on the stores tendered, will be submitted alongwith the challan. The declaration will also indicate the method followed in carrying out pre - inspection showing the features checked / tested and will have the test certificate attached to the challan / declaration.

10.2 If the Quality Assurance Officer finds that pre - inspection of the consignment as required above has not been carried out, the consignment is liable for rejection

11. SAMPLING

11.1 The supplier shall offer the store serially numbered and arranged in such a way that the entire lot is accessible to the Quality Assurance Officer.

11.2 The Quality Assurance Officer shall draw samples from the bulk lot at random using the technique of simple random sampling as given in IS 4905.

11.3 For evaluating length, width, ends in full width, picks per dm and folds of yarn the rolls selected as in col.2 of the following tables shall constitute the test sample. The sample so drawn shall be examined for shade, dyeing defects, weaving defects, length, width, ends in full width and picks per dm and it should not exceed the corresponding number given in col.3 of the table. In case of length, the value obtained for each roll shall be compared with its specified declared or marked length. The mean percentage of deficiency in length, if any, shall be determined as made applicable to the lot.

11.4 For evaluating other laboratory tests on the number of rolls specified in col.4 of the table shall constitute the test sample.

11.5 The length of the sample for subjecting to full tests shall be 5 metres. A 2 metre sample shall also be drawn from the remaining lot for breaking load test only. In case the store is required in the manufacture of Man dropping / Break parachutes. Samples from all the hanks length / rolls be tested for breaking load tests.

SAMPLING TABLE

As per Sampling plan AQL 4 % as per table I for visual inspection (Based on General Inspection level II) and table II for laboratory testing (Based on and S - 3) as per IS 2500 : Part I : 2000.

| TABLE - I | | | | TABLE - II |
|-----------|--------------------|---|------------------------|--|
| Sl. No. | Lot Size In roll's | No. of samples to be drawn by sampling officer for visual Examination (General Inspection Level II) | | Sub Sample Size (No. of rolls to selected for lab) |
| | | Sample Size (n) | Acceptance Number (Ac) | |
| (1) | (2) | (3) | (4) | (5) |
| (a) | Up to 25 | 5 | 0 | 3 |
| (b) | 26 to 50 | 8 | 1 | 3 |
| (c) | 51 to 90 | 13 | 1 | 5 |
| (d) | 91 to 150 | 20 | 2 | 5 |
| (e) | 151 to 280 | 32 | 3 | 8 |
| (f) | 281 to 500 | 50 | 5 | 8 |
| (g) | 501 to 1200 | 80 | 7 | 13 |

- NOTE :**
- (1) Sampling shall be done randomly as per IS 4905 : 1968.
 - (2) Inspection level S - 3 for laboratory tests.
 - (3) The Rejection number (Re) will always be one more than acceptance Number (Ac).
 - (4) When the Sample size equals or exceeds lot size 100 % inspection / non - destructive testing with zero acceptance number shall be carried out.

12. CRITERIA FOR CONFORMITY

12.1 All the sample units drawn shall be tested / examined to the relevant specification requirement. If all the sample units are found to conform to the requirements of this specification, the supply would be considered to be in conformity, otherwise not.

13. WARRANTY

13.1 Except as otherwise provided in the invitation to the tender, the contractor / seller hereby declares that the goods / stores, articles sold / supplied to the purchase under this contract shall be of the best quality and workmanship and new in all respect and shall be strictly in accordance with the specification and particulars contained / mentioned in the contract. The contractor / seller hereby guarantees that the said goods / stores / articles would continue to conform to the description and quality aforesaid for a period of 12 months from the date of delivery of the said goods / stores / articles to the purchaser or 15 months from the date of shipment / dispatch from the contractor work whichever is earlier and that notwithstanding the facts that the purchaser (QAO) may have inspected and / or approved the said goods / Stores / articles. If during the aforesaid period of 12 / 15 months the said goods / stores / articles be discovered not to be conform to the description and quality aforesaid or not giving satisfactory performance or have deteriorated and the decision of the purchaser in that behalf shall be final and binding on the contractor / seller to rectify / replace by acceptable goods / stores / articles or such portion or portions thereof as is found to be defective by the purchaser within a reasonable period not exceeding 03 months or as may be allowed by purchaser in his discretion on the application made thereof by the contractor / seller and in such an event the above mentioned warranty period shall apply to the goods / stores / articles rectified / replaced from the date of rectification / replacement thereof, otherwise the contractor / seller shall pay to the purchaser such compensations as determined by the purchaser as may arise by reason of the break of the warranty herein contained.

14. PACKAGING

14.1 The following materials shall be used for packing of Tape, Nylon dyed / undyed :

| Sl. No. | Materials | Conforming to |
|---------|--|----------------------------------|
| (a) | Polyethylene film 0.04 mm thick | IS 2508 : 1984 |
| (b) | Twine, jute, 3 ply | IS 1912 : 1984 |
| (c) | Packing paper, waterproof bitumen laminated using Kraft paper having substance 60 g / m ² , Min) | IS 1398 : 1982 (Type I) |
| (d) | Triple walled corrugated fibreboard boxes(outer liners shall be laminated with polyethylene to provide waterproofness) | IS 2771 : Part 1 : 1990 |
| (e) | Polypropylene Strapping, 12 mm wide | JSS 8135 - 10 : 2004 |
| (f) | Cushioning material | IS 10106 : Part 3 / Sec 1 : 1984 |

15. **DEFENCE STORES CATALOGUE NUMBERS**

15.1 Tape, Nylon, dyed / undyed covered by this specification shall bear the following DS Cat numbers :

| Sl. No. | DS Cat No. | Nomenclature Tape, Nylon, Undyed |
|---------|----------------|-------------------------------------|
| (a) | 8315 - 000 257 | 14 mm |
| (b) | 8315 - 000 258 | 19 mm |
| (c) | 8315 - 000 259 | 25 mm |
| (d) | 8315 - 000 260 | 32 mm |
| (e) | 8315 - 000 261 | 38 mm |
| (f) | 8315 - 000 262 | 44 mm |
| | | Nomenclature Tape, Nylon, Dyed |
| (g) | 8315 - 000 263 | 14 mm |
| (h) | 8315 - 000 264 | 19 mm |
| (j) | 8315 - 000 265 | 25 mm |
| (k) | 8315 - 000 266 | 32 mm |
| (l) | 8315 - 000 267 | 38 mm |
| (m) | 8315 - 000 268 | 44 mm |

16. **SUGGESTIONS FOR IMPROVEMENT**

16.1 Any suggestion for improvement in this document may be forwarded to :

The Director,
Directorate of Standardisation,
Ministry of Defence,
'H' Block, Nirman Bhawan PO,
New Delhi - 110 011.

JSS 8315-06 : 2014
(Revision No. 2)


 香港紗廠有限公司 (香港紗廠有限公司)
 HONGKONG SPINNING CO., LTD.
 香港紗廠有限公司 (香港紗廠有限公司)
 HONGKONG SPINNING CO., LTD.
 香港紗廠有限公司 (香港紗廠有限公司)
 HONGKONG SPINNING CO., LTD.


APPENDIX 'A'

| Variety No. | Width in (mm) | Thickness in mm (under a pressure of 210 g/cm ²) | Ends in full width (min) | Picks per dm | Number of folds of yarn | | Mass per 100 m in g (max) | Breaking load (full width x 20 cm) | Percentage elongation at break (min) | Weave | Linear density of yarn (Tex) | |
|-------------|-----------------|--|--------------------------|--------------|-------------------------|------|---------------------------|------------------------------------|--------------------------------------|-------|------------------------------|------|
| | | | | | Wrap | Weft | | | | | Wrap | Weft |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
| 1. | 14 + 1 | 0.64 to 1.0 | 92 | 134 | 2 | 4 | 870 | 2260 | 18 | * | 23 | 23 |
| 2. | 19 + 1 - 0 | 0.5 to 0.8 | 150 | 148 | 1 | 2 | 620 | 1900 | 18 | @ | 23 | 23 |
| 3. | 25 + 1 - 0 | - do - | 75 | 134 | 4 | 2 | 1120 | 3960 | 18 | * | 23 | 23 |
| 4. | 32 + 1 - 0 | - do - | 94 | 134 | 4 | 2 | 1400 | 4970 | 18 | * | 23 | 23 |
| 5. | 38 + 1.5 - 0 | - do - | 112 | 134 | 4 | 2 | 1675 | 5940 | 18 | * | 23 | 23 |
| 6. | 44 + 1.5 - 0 | - do - | 132 | 134 | 4 | 2 | 1955 | 6920 | 18 | * | 23 | 23 |

* 2 up and 2 down herringbone twill with one reversal of twill in the centre.

@ 2 up and 2 down herringbone twill with one reversal of twill at the centre and 2 end woven as one

NOTE : Breaking Load - No individual reading should be less than specified.


बहुमूर्त निदेशक (सकल) स.स.
स.स. निदेशक (T.C.)
मानकीकरण विभाग
Directorate of Standards
भारत मानकीकरण, नई दिल्ली,
India of Directorate, New Delhi.

APPENDIX 'B'

B. METHOD FOR DETERMINATION OF THICKNESS

B.1 Prior to test, the test specimens shall be conditioned in a standard atmosphere of 65 ± 2 percent relative humidity and $27 \text{ }^\circ\text{C} \pm 2 \text{ }^\circ\text{C}$ temperature for at least 24 hours. Take a test specimen and determine the thickness under a pressure of 210 g / cm^2 at different places and calculate the average of these results.

NOTE : Breaking Load - No individual reading should be less than specified.