



**रक्षा मंत्रालय**  
**MINISTRY OF DEFENCE**

**ज्वाइंट सर्विस स्पेसिफिकेशन**  
**JOINT SERVICES SPECIFICATION**

**ON**

**WEBBING TEXTILE SPECIAL**  
**(DS CAT NO. 8305 - 000 360 to 000 362)**

**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**

**LIST OF MEMBERS ASSOCIATED WITH FORMULATION OF THIS STANDARD**

1. The revision of this Joint Services Specification has been approved by Shri Sanjeev Kapur Addl DGQA (S), Chairman, Stores Standardisation Sub Committee.
2. The following members have been associated in preparing the document : -

<b>Sl. No.</b>	<b>Name and Designation</b>	<b>Organisation</b>
(a)	Wg Cdr SKS Gosain, JDQAS (S & C)	DQAS (Aero) / Air HQ
(b)	S. Chakraborty, SSO - I	CQA (T & C)
(c)	Shri Goray Lal, SSO - II	CQA (M)
(d)	Shri C.B. Pandey, JAG (NFSG)	CQA (PP)
(e)	Shri D K Pujari, SSO - I	CQA (GS)
(f)	Cdr. Naveen Kumar (IN)	DQA (N)
(g)	Shri K L Khatter, Director	DGAQA
(h)	Shri Jarnail Singh, Dy Director	DGAQA
(j)	Maj. S. Bansal, DD OS (PII)	MGO / CP Cell / OS Dte.
(k)	Shri A K Handa, Jt Dir. Stdn Cell (Army)	MGO Br / EM / GS & C
(l)	Wg Cdr Chaturvedi, Deputy Director	Dte of Stores / Air HQ
(m)	Shri P K Asthana, SCSO	MGO / EM / Std
(n)	Lt. Cdr Arun Samal, DDCV	NHQ / DCV
(o)	Cdr Anish Sharma, JD DOS (E)	NHQ / DOS (E)
(p)	Dr. R B Shrivastava, Sc. 'F'	DMSRDE
(q)	Shri Om Prakash, TO (A)	DMSRDE
(r)	Cdr. Manish Singh (JDLS)	JDLS
(s)	Shri S.K. Bandyopadhyay, JGM	OEF, Kanpur
(t)	Shri R M Singh, JTO	DSC, Kanpur
(u)	Lt. Col. Parveen Deo	Secy., SSSC

**RECORD OF AMENDMENTS**

<b>Amendment</b>		<b>Amendment Pertains to Sl. No. / Para No. / Column No.</b>	<b>Authority</b>	<b>Amended by Name &amp; Appointment (IN BLOCK LETTERS)</b>	<b>Signature &amp; Date</b>
<b>No.</b>	<b>Date</b>				

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**0.0      FOREWORD**

0.1      This specification has been prepared by Stores Standardisation Sub - Committee in authority or 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      This joint specification has been prepared on the basis of specification No. JSS 8305 – 08 : 2007, (Revision No. 1 ) and supersedes the same.

0.4      This JSS would be used for Manufacture, Quality Assurance and Procurement of the item.

0.5      Quality Assurance Authorities for the item covered in this specification are CQA (T & C), Kanpur, DC & V, New Delhi and DQAS (Aero), New Delhi for Army, Navy 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,  
New Delhi – 110 011

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

Directorate of Standardisation Website : -  
[www.defstand.gov.in](http://www.defstand.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.defstand.gov.in](http://www.defstand.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 Webbing Textile Special intended to be used for making of packs of parachute and saddlery items.

## **2. RELATED SPECIFICATIONS**

2.1 Reference is made in this specification to : -

(a)	IS 1070 : 1992 (Third Revision) Reaffirmed - 2008	Reagent grade water - Specification
(b)	IS 1383 :1977 (First Revision) Reaffirmed - 2009	Methods for determination of scouring loss in grey and finished cotton textile materials
(c)	IS 1390 : 1983 (First Revision) Reaffirmed - 2009	Methods for determination of pH value of aqueous extracts of textile materials
(d)	IS 1954 : 1990 (Second Revision) Reaffirmed - 2007	Determination of Length and Width of Woven Fabrics - Methods
(e)	IS 1963 : 1981 (Second Revision) Reaffirmed - 2008	Methods for Determination of Threads per Unit Length in Woven Fabrics
(f)	IS 1964 : 2001 (Second Revision) Reaffirmed - 2010	Textiles - Method for determination Mass per unit length and mass per unit area of fabrics
(g)	IS 1969 : 1985 (Second Revision) Reaffirmed - 2006 Amd - 1	Methods for Determination of Breaking load and Elongation of Woven Textile Fabrics
(h)	IS 2454 : 1985 (First Revision) Reaffirmed - 2010 Amd - 1	Methods for determination colour fastness of textile materials to artificial light (xenon lamp)
(j)	IS / ISO 105 – C 10 : 2006 Reaffirmed - 2010	Textiles – Tests for Colour Fastness : Part C10 : Colour Fastness to Washing with Soap or Soap and Soda
(k)	IS / ISO 105 – B 02 With Amd - 1	Textiles – Tests for Colour Fastness : Part B 02 : Colour Fastness to artificial light xenon Arc Fading Lamp test

(1)	IS 4905 : 1968 Reaffirmed - 2011 Amd - 1	Methods for random sampling
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### **3. STANARD PATTERN**

3.1 The standard pattern held by the Controllerate of Quality Assurance Textiles & clothing, Kanpur shall constitute the standard as regards any particulars or properties not noted / defined in this specification.

### **4. MATERIALS**

4.1 The webbing shall be manufactured from long staple cotton yarn of count 60 tex x 5. The folded yarn shall be free from spinning and doubling defects.

### **5. MANUFACTURE**

5.1 The webbing shall be woven uniformly free from weaving and other manufacturing defects. The pieces shall be well beaten up. The selvages shall be firm, straight and properly formed.

5.2 The webbing shall be dyed in the standard shades as ordered and the dyed webbing shall show a fastness to light and washing as laid down in clause 9 in below.

### **6. DIMENSIONS AND OTHER DETAILS**

6.1 The webbing shall conform to the following particulars : -

Store Webbing Textile spl	Dimensions		Number of threads		Mass per metre	Min (average) breaking load after conditioning at $65 \pm 2$ % RH and $27 \pm 2$ °C for 48 hour N	Weave
	Length	Width	Wrap in full width	Weft per decimeter			
	m	mm			g		
Light Olive Drab	20	44 + 1.5	140	70 + 2	54	4115	Herring
	or as ordered						bone
Undyed	„	50 + 2	160	70 + 2	62	4705	-
Olive Green	„	76 + 3	240	70 + 2	93	7095	
Method of test	IS 1954		IS 1963		IS 1964	IS 1969	



**7. WORKMANSHIP AND FINISH**

7.1 The webbing shall be free from weaving and other processing defects. The shades shall conform to the standard shades of olive green, light olive drab or any other shade as required and shall not show any streaks or shade variation.

7.2 In appearance, general workmanship and finish and in all other respects not noted / defined in this specification the webbing shall conform to the Standard Pattern.

**8. MARKING**

8.1 Each roll of webbing of specified length shall suitably be marked with the supplier's name, initials or recognised trade mark, the year of manufacture, the length of roll and DS Cat number of the store.

**9. QUALITY**

9.1 Examination of samples taken from any portion of a consignment shall show that the webbings conform to the requirements of clause 6 above and the tests given below when tested according to the methods mentioned against each : -

Sl. No	Tests	Requirements	Methods (Refer to)
(a)	PH of aqueous extract	Min 6.0 Max 8.5	IS 1390 : 1983 (Cold Method)
(b)	Loss on scouring percent	Max 2	Mild method as per IS 1383 : 1977
(c)	Colour fastness (in dyed webbing only)		ISO – 105 B 02 with Amd - 1
	(i) To Light	Rating 5 or better	IS 2454 :1985
	(ii) To washing	Rating 4 or better	IS / ISO 105 – C 10 : 2006 Test Number B (2)

**10. PRE INSPECTION OF STORES / CONSIGNMENT**

10.1 Manufactures / Contractors must satisfy themselves that the stores are in accordance with the terms of contracts 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 material duly serially / numbered and arranged in such a way that all the units are easily accessible to the Quality Assurance Officer. Based on the lot size / level of number of rolls for preliminary visual inspection shall be selected at random as per plan given in the col 2 of Table using the technique of simple random sampling as per IS : 4905. The rolls so drawn shall be examined visually for the following characteristics : -

- (a) Length of the rolls
- (b) Width
- (c) No. of threads (end and picks)
- (d) Workmanship and finish.

**TABLE**

<b>Lot Size (No or rolls)</b>	<b>Visual Examination</b>		<b>Sample size for Lab, test</b>
	<b>Sample Size</b>	<b>Permissible No. of defective rolls</b>	
<b>(1)</b>	<b>(2)</b>	<b>(3)</b>	<b>(4)</b>
Up to 100	8	0	3
101 to 300	13	1	4
301 to 500	20	2	5
501 to 1000	32	3	7
1001 and above	50	5	10

11.2 During preliminary visual examination if the number of non - conforming rolls do not exceed the corresponding number given under Col. 3 of Table, samples for laboratory tests shall be drawn as per column 4 of the table from the rolls drawn and examined as per Col. 2 of Table. Each sample unit shall be of 5 metre and care shall be taken to draw the unit from different portions of different rolls.

## **12. CRITERIA FOR CONFORMITY**

12.1 All sample units when examined / tested as per relevant clauses of the specification, if fulfill the stipulated requirement, the lots shall be considered to be in conformity with the specification requirements otherwise not.

## **13. QUALITY ASSURANCE**

13.1 All webbing, found not fully in accordance with this specification shall be rejected.

**14. WARRANTY**

14.1 The store supplied against this order shall be deemed to bear a warranty of the contractor against defective material, workmanship and performance for a period of 12 months from the date of receipt of stores at consignee depot. If during the period, the stores supplied are found by the consignee to be defective, the same shall be replaced immediately with serviceable store by the contractor at site free of any charge or cost.

**15. PACKAGING**

15.1 Packing and marking of the packages shall be in accordance with the CQA (T & C) Schedule No. PMS / 22 (a).

**16. DEFENCE CATALOUGE NUMBERS**

Sl. No.	Nomenclature	DS Cat Number
WEBBING TAXTITLE SPECIAL		
(a)	Light olive Drab, 44 mm	8305 - 000 360
(b)	Olive Green, 76 mm	8305 - 000 361
(c)	Undyed, 50 mm	8305 - 000 362

**17. SUGGESTION FOR IMPROVEMENT**

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

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