GERTIFIED GOPY

011

NEWTIFIE

(30) Specification No. CLADE/19 (a)

READS

1. This specification covers the requirements of the following /for Parachuteypes of Cotton Fabrica in particular and for other miscellaneous uses in Aerial Dalivary Equipment.

Niv Fabric Cotton Cocured for Parachutes

type I 52 2 (1.5 Cs) and type II 6896m (2.02)

GENERAL

8. Both types of fabrics used in the fabrication of parachute 8.4 metres (11 ft) for Flares Recommissance and other equipments corrected with aircraft, are required to be of a high standard and in strict conformity with the particulars laid down in this specification.

MATERIAL

3. Both types of fabrics shall be manufactured from superior quality of combed cotten yarns.

MANUFACTURE /WORKMANSEIP AND FINISH

- 4. Single fold yarn should be used in the manufacture of both types of the fabric. The yarns shall be free from all spinning defects and shall be evenly spon and well twisted.
- 5. Both the fabrics shall be of plain weave. The selvedges shall be firm and uniform. Fabrics when visually examined shall be free from manufacturing defects and shall strictly conform to the particulars laid down in Clause 7.
- 6. The fabrics shall be scoured, and free from scouring defects.
 They shall be free from substances liable to cause subsequent tendering of the cloth. **

DIMENSIONS AND OTHER DETAILS

7. Both the fabrics shall conform to the following particulars:

....2

C174C letter No. G/8003/C-2/TC-3A 81-20/1/76

CIADE/19(d)

			mass glai	mass g/202			LBreakinghood 15 cm × 20 Cm		
Typo	Length in Letre (yds)	1 page	Weight per Sa metre in Gr (Wt/Sa vt in	No. of per cm	Threads (Inch) (ich) (Weft	bet grip in N (Min) Warp	(8" +0") Kg(1bs) (Ne.to Weft		
I	40	. 91.5+1.3	52 ± 4	40+1	40+1	206	206	Plain	
	(44)	(36+2)	(1.5 ± 0.1)	(104 <u>+</u> 2)	(104+2)	(40)	(45)		
	or as	L.	transfer of						
II	40	91.5+1.3	68 ± 6	52 min	52 min	33 324	324	Plain	
	(44)	(3 5+1)	(2.0+0.25)	(134) min	(134) min	-(72)	(72)	20	
	ordened.				42 T.L	The second secon		-	

Note - Approximate counts of 6.2 Tex (26) and 6.5 Tex (25) in both warp and weft may be used in the manufacture of the fabrics type I and Type II respectively.

1kg force = 9.80665 N (Newton)

TESTS

Reference may be made to the following ISI Standards for the method of testing of the above particulars :-

Dimensions (Length & Width)

as per IS: 1954-1961

as per IS : 1963-1961 (a)

as per IS: 1964-1961

(b) Threads/unit length
(c) Weight/Sq metre
(d) Breaking Strength Load

as per IS: 1969-1961

SCOURING LOSS

Neither of both the types of the fabric shall show a scouring loss of more than 2% when determined by the method specified in Indian Standard No IS:1383-1960.

pH VALUE

The pH value of the aqueous extract of both types of fabric when determined in accordance by the hot method shown in IS: 1390-1001 shall not be less than 6 nor more than 8.5.

AIR POROSITY

11. The mechanical resistance to air flow of the fabric when determined on the RAE high pressure porosity instrument in accordance with the instruction contained in RAE publication No. Aero 11192/98, shall not be less than 1280 ± 122 Cm³/Cm²/3cc 12+4 cu ft/Sq ft/Sec) in case of Type (I) fabric and 488+46 Cm³/Cm²/3ec (15+1½ cu ft/Sq ft/Sec) in case of Type (II) fabric.

MARKING

12. Each piece shall be legibly and indelibly marked with the nomenclature and Cat. No. of the store, trade mark, date and year of manufacture and length of the piece.

PACKAGING

L film 0.04mm

60,64mm

- 13. Each piece of 40 metre (17 Yds) length shall be arranged in bundles and secured by jute twine to form a unit pack. Sixty number of such unit packs shall than be suitably arranged and wrapped with polythene (150 gauge (one inner layer of kraft paper wrapping followed by one layer of paper packing water proof can be used in emergent condition when polythene film (156 gauge is not readily available)

 fof and finally with one layer/cloth 'C' heavy or equivalent Hessian cloth to form a bale of gross weight of approximately 250 Kg (550 lbs).

 The bales shall be suitably stitched with double 3 ply jute twine with not less than 12 stitches per 10 cms taking care not to pierce with inner wrapping during stitching. Sufficient hessian cloth shall be pulled out at each corner to form 'ears' of about 15 cm (6") in length.
 - 14. Packing material used shall be of best trade quality previously approved by the Inspecting Officer.
 - 15. For DOS packing the store shall be packed as per details given imparate to form compact bale of gross weight of 37 Kg (82 lbs).
 - 16. If ordered for delivery to a local Inspection Depot the fabrics shall be delivered in firms returnable packs and after inspection acceptable supplies shall be packed by the Inspection Depot Authorities as given in para 13.
 - 17. Before despatch, each bale shall be legibly and indelibly marked showing the following details:
 - (a) Nomenclature & Cat. No. of the store

(b) Quantity packed in each bale

(c) Serial No. of bale 1/40, 2/40, 3/40....40/40

(d) Month and year of packing

- (e) Name and trade mark of the manufacturer
- (f) Gross weight of the bale in Kg (2) Name and address of the consignee
- (h) Inspection Note No. and date.

PRE-INSPECTION

18. Before tendering the store to the Govt Inspector the supplier will carry out a thorough pre-inspection of each delivery to satisfy himself that the stores fully conform to this specification.

INSPECTION

- 19. (a) If, on examination material from any portion of a consignment is found not to be fully in accordance with this specification, the whole consignment is liable to be rejected.
 - (b) If, on examination, of 20% of any delivery, 20% of those examined are found not to conform to this specification in any respect, the whole consignment may be rejected.
 - (c) All pieces not fully in accordance with this specification shall be rejected.

AGRACANTT KANDUR.
DATED 28-1-76.

CHIEF INSPECTORATE OF AURIAL DELIVERY EQUIPMENT

29.176

Note:-

Specifications in the IS series are held and issued by the Director, Indian Standard Institution, Manck Bhavan 9 Bahadur Shah Zafar Marg NEW DELHIOR his regional office at BOMBAY, CALCUTTA, MADRAS DECHI and KANPUR.

JAYANT