

GOVERNMENT OF INDIA
(MINISTRY OF DEFENCE)

Provisional Specification
No. DMSRDE/T&GS/88/165(b)
No. OF PLATES (DRAWINGS) - NIL

PROVISIONAL SPECIFICATION
FOR
SURVIVAL BLANKET MK I (SIGNAL RED / DEEP ORANGE / GOLDEN YELLOW)

1. THIS SPECIFICATION CONSISTS OF FIVE PAGES.
2. THIS SPECIFICATION IS INTENDED TO GUIDE PURCHASE, MANUFACTURE AND INSPECTION OF SURVIVAL BLANKET MK I (SIGNAL RED / DEEP ORANGE / GOLDEN YELLOW) AGAINST DEFENCE REQUIREMENT.
3. THIS SPECIFICATION OR ANY OTHER INFORMATION ISSUED IN CONNECTION THEREWITH SHALL ONLY BE USED FOR SPECIFIC ORDER PLACED BY A COMPETENT AUTHORITY. IT IS NOT TO BE USED FOR ANY OTHER PURPOSE WHATSOEVER WITHOUT THE EXPRESS WRITTEN SANCTION OF THE APPROPRIATE AUTHORITY.
4. ALL CLAUSES IN THIS SPECIFICATION SHALL BE COMPLIED IN EVERY RESPECT, IRRESPECTIVE OF THE SOURCE OF SUPPLY OF THE MATERIAL.
5. IN CASE OF ANY DISCREPANCY BETWEEN THIS SPECIFICATION AND SAMPLE LOANED FOR ANY PURPOSE, THIS SPECIFICATION ALONGWITH SEALED SAMPLE HELD IN THE CUSTODY OF AHSP SHALL BE TAKEN AS CORRECT.
6. WHEREEVER A REFERENCE TO ANY OTHER SPECIFICATION OCCURS IN THIS SPECIFICATION, IT SHALL BE TAKEN AS A REFERENCE TO THE LATEST VERSION OF THAT SPECIFICATION EXISTING AT THE TIME OF FINALISATION OF THE CONTRACT.

ISSUED BY

THE DIRECTOR
DEFENCE MATERIALS AND STORES
RESEARCH & DEVELOPMENT ESTABLISHMENT (DMSRDE),
DMSRDE PO, G.T. ROAD,
KANPUR - 208 013

PRICE : Rs. 550/-

12/7
(5)

1. SCOPE

This specification covers the requirement of Survival Blanket Mk I. It is intended to be used in sub-zero temperature conditions in which the casualties, for evacuation purposes, can be completely covered by this store in order to prevent the loss of metabolic heat of the casualty in those extreme cold conditions.

2. RELATED SPECIFICATIONS

Indian Standard Specifications, referred in this specification are available on payment from Secretary (Adm), BIS, Manak Bhawan, 9, Bahadur Shah Zafar Marg, New Delhi or from their regional and branch offices.

3. SEALED SAMPLE

The store shall conform fully to the terms of this specification and in all other respects, not defined in this specification, to the sealed sample held in the custody of AHSP.

4. GENERAL DESCRIPTION

4.1 It is made of a vacuum aluminized polyester film lacquered in Signal red/ Deep orange/ golden yellow colour on the other side. It works on the principle that the aluminised surface reflects the human body heat thereby conserving the metabolic heat to the extent of 80-90 % in extreme cold conditions.

4.2 It is primarily intended for evacuation of casualties under sub-zero temperature. Its coloured side is meant for locating the casualty from a distance i.e. it works as a signal asking for help.

5. MATERIAL

It is made from polyester film vacuum metallised with aluminum. Its other side is coated with a lacquer in signal red/ deep orange/ golden yellow colour.

6. DIMENSIONS AND WEIGHT

The finished Survival Blanket shall conform to the following particulars.

Size - 240cm X 150cm

Weight - 90gms maximum

Packed Volume - 15cm X 15cm X 3cm

076
(42)

7. MANUFACTURE, WORKMANSHIP AND FINISH

- 7.1 The aluminized surface of the polyester film shall be uniform throughout.
- 7.2 The blanket shall be made in accordance to the sizes laid down in clause 6 of this specification. In case, the aluminized film is not available in required width i.e. the width being less, the film of suitable width shall be cut to the required length and two such lengths shall be bonded lengthwise with epoxy adhesive (Hindustan Ciba-Giegy grade Araldite or its equivalent along with hardener), keeping 2cm overlap to obtain the required width. The bonding shall be free from wrinkles and full with no unbonded area. The adhesive in this case shall not come out of bonded area.

8. TEST REQUIREMENTS

The material of Survival Blanket i.e. aluminized film shall conform to the laboratory test requirements as given in Table 1 below.

TABLE 1

Sl. No.	TEST	REQUIREMENT	TEST METHOD
1.	Mass, gsm	18 ± 2	IS: 1964
2.	Width, cm	77 ± 2 (or as ordered)	IS: 1954
3.	Thickness, mm (under 200 g/cm ² pressure)	0.014 ± 0.002	IS: 10889 (A-1) ✓
4.	Tensile Strength, Kg/cm ² One direction Other direction	300 min 800 min	IS: 10889 (A-3) ✓
5.	Elongation at Break, %	20 min	IS: 10889 (A-3)
6.	Bursting Strength, N/cm ²	30, + 5	IS: 1060 (P-1) ✓

9. PRE-INSPECTION

Before tendering the store to the Government Inspector, the supplier shall carry out a thorough pre-inspection to satisfy himself that the stores tendered by him fully conform to this specification and submit a report to this effect to the Inspector at the time of inspection.

10. SAMPLING PLAN AND INSPECTION PROCEDURE

- 10.1 The quantity of stores offered against one dispatch note shall constitute a lot.
- 10.2 All the items in a lot shall be inspected visually for workmanship, finish and other visual defects such as non-uniformity of aluminized surface, faulty bonding of film, wrinkles at or near the bonded surface, pinholes, spillage of adhesive, etc.

10.3 The minimum number of samples to be drawn randomly for inspection in respect of 'Size' and laboratory evaluation as per Clause 8 of this specification, shall be as per Table 2 below.

TABLE 2

Sl. No.	LOT SIZE	SAMPLE SIZE FOR DIMENSION MEASUREMENT	SUB-SAMPLE SIZE FOR LABORATORY TESTS AS PER TABLE 1
1.	Up to 100	8	3
2.	101 - 250	15	5
3.	251 - 500	25	7
4.	501 - 1000	40	9
5.	1001 - 3000	60	12
6.	3001 and above	100	15

11. PACKING

- 11.1 Each accepted Blanket shall be folded to the required size of packed volume and then kept in a rectangular transparent bag made of 0.04mm thick polyethylene film (IS:2508) or equivalent grade.
- 11.2 A printed paper of size 10cm X 10cm, indicating nomenclature, size, weight and 'Instructions For Use', to be printed in following format shall be kept in each bag with the blanket and the open end of the bag then be heat-sealed.

SURVIVAL BLANKET	
SIZE : 240 cm X 150 cm WEIGHT : 90 'g'	
INSTRUCTIONS FOR USE	
1.	Remove and open to full width
2.	Unwind approximately 30 cms and tuck under feet keeping shiny (aluminized) side facing the body.
3.	Continue to spread over the body of casualty, tucking as it is unwound.
4.	If excessively windy, the blanket may be held in place with pressure sensitive adhesive tape.
5.	Take care to avoid any puncture during use.
6.	After use, fold and replace it in the polythene bag.

- 11.3 Suitable no. (minimum 80 or as ordered) of such packed blankets shall then again be packed appropriately in a Corrugated PP box (. 600mmX300mmX300mm) corresponding to Specification no. DMSRDIE/T&GS/ 85/ 329.

12. MARKING

Before dispatch, each box shall be legibly and indelibly marked to indicate the following.

- a) Nomenclature of the store
- b) Quantity of blankets packed (in numbers) in the box
- c) A/T no. and Date
- d) I/ Note no. and Date
- e) Manufacturer's name and Trademark
- f) Gross weight of the box
- g) Name of the Consignee

13. WARRANTY CLAUSE

The stores supplied against an order shall be deemed to bear a warranty of the contractor against defective material, workmanship, and performance for a period of six months from the date of receipt of stores at the Consignee's depot. If during the period of storage at Consignee's depot, the stores are found by the consignee to be so defective, the same shall be replaced immediately with serviceable stores by the Contractor at site free of any cost and charges.

ISSUED BY

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Joint Director
(DR V S Tripathi)

for DIRECTOR
DEFENCE MATERIALS AND STORES
RESEARCH & DEVELOPMENT ESTABLISHMENT
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KANPUR - 208 013

DATE: 16th MAY, 2002.

PLACE: *Kanpur*