

X

इंटरनेट

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

"जानने का अधिकार, जीने का अधिकार" Mazdoor Kisan Shakti Sangathan "The Right to Information, The Right to Live"

"पुराने को छोड नये के तरफ" Jawaharlal Nehru "Step Out From the Old to the New"

मानक

IS 15381 (2003): Fire Blanket - [CED 36: Fire Safety]



51111111

Made Available By Public, Resource, Org

RIGHT TO INFORMATION

"ज्ञान से एक नये भारत का निर्माण" Satyanarayan Gangaram Pitroda "Invent a New India Using Knowledge"

"ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता Bhartrhari-Nītiśatakam "Knowledge is such a treasure which cannot be stolen"





BLANK PAGE



PROTECTED BY COPYRIGHT

भारतीय मानक अग्नि शमन हेतु कम्बल — विशिष्टि

Indian Standard FIRE BLANKET — SPECIFICATION

ICS 13.340.10

© BIS 2003

BUREAU OF INDIAN STANDARDS MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG NEW DELHI 110002

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Fire Safety Sectional Committee had been approved by the Civil Engineering Division Council.

The blanket is intended for use in fire fighting operations for protection of the operator and for smothering and extinguishing fire in its early stages.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard FIRE BLANKET — SPECIFICATION

1 SCOPE

This standard covers the requirements of material, manufacture and other requirements of fire blanket, $1.8 \text{ m} \times 1.8 \text{ m}$.

2 REFERENCES

The standards given below contain provisions which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

IS No.	Title
7639 : 1975	Methods of sampling of asbestos cement products
11451 : 1986	Recommendation for safety and health requirements relating to
11767 : 1986	occupational exposure to asbestos Recommendations for cleaning of premises and plants using asbestos fibres
11768 : 1986	Recommendations for disposal of asbestos waste material
11770 (Part 3) : 1987	Recommendations for control of emission of asbestos dust in premises manufacturing products containing asbestos: Part 3 Non-cement asbestos products other than friction materials
12078 : 1987	Recommendations for personal protection of workers engaged in handling asbestos
12079 : 1987	Recommendations for packaging, transport and storage of asbestos
12080 : 1987	Recommendations for local exhaust ventilation systems in premises manufacturing products containing asbestos
12081	Recommendations for pictorial warning signs and precautionary notices for asbestos and products containing asbestos:
(Part 1) : 1987 (Part 2) : 1987 13362 : 1992	Workplaces Asbestos and its products Textiles — Asbestos yarn

3 MATERIALS

The blanket shall be manufactured from the following

materials conforming to the particulars noted against each:

Sl No.	Components	Materials	Particulars
i)	Body	Cloth asbestos, 1.6 mm	Yarn conforming to IS 13362
ii)	Loops	Tape/Web asbestos	Annex A
		or	
		Cloth asbestos, 1.6 mm	
iii)	Stitching	Sewing thread asbestos	Annex B

4 MANUFACTURE

4.1 The blanket shall be made from a single piece of cloth asbestos. If the cloth asbestos of the required width is not available, the body of the blanket may be made by joining two pieces of asbestos cloth (0.08 m smaller width) by means of a 25 mm wide lapped seam as shown in Fig. 1. The joint shall be stitched and two rows of blanket shall be finished with a 25 mm wide hem at the sides with the raw edges turned in and stitched.

4.2 Two loops, each 25 mm wide, shall be made from tape asbestos [*see* **3.1** (iii)], alternatively, these shall be made by turning in the raw edges of 70 mm of asbestos cloth (body materials) cut warp wise and by folding in the middle and top stitching the folded piece with two rows of machine stitching. The loops shall be sewn on to any one of the sides of the blanket body. One of the loops shall be stitched at 630 mm from one corner and the other at same distance from the other corner. The total length of the strip for each loop shall be 760 mm of which 460 mm shall form the loop as shown in Fig. 1.

4.3 Stitching shall be done neatly and securely with even tension, regulated at 16 to 20 stitches per decimetre. All loose ends shall be securely fastened off.

5 DIMENSIONS AND TOLERANCES

The blanket shall conform to the dimensions shown in Fig. 1. A tolerance of ± 15 mm is permissible in length and width of the blanket.



FIG. 1 FIRE BLANKET

6 WORKMANSHIP AND FINISH

The blanket shall be reasonably free from spinning, weaving and stitching defects and effect in workmanship consistent with good manufacturing practice.

7 SAFETY RULES

The recommendation for personal protection for

control of emission of asbestos dust in premises used for manufacture of asbestos fire blanket as laid down in IS11451, IS 11767, IS 11768, IS11770 (Part 3), IS 12078, IS 12079 and IS 12080.

8 SAMPLING

The sampling, inspection and acceptance shall be in accordance with IS 7639.

9 MARKING

9.1 Each blanket shall be legibly and indelibly marked with the following information:

- a) Nomenclature,
- b) Serial No.,
- c) Manufacturer's name,
- d) Year of manufacture, and
- e) Pictorial warning sign as given is IS 12081 (Parts 1 and 2).

9.2 BIS Certification Marking

Fire blanket, conforming to this standard may also be marked with the Standard Mark.

9.2.1 The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act*, 1986 and Rules and Regulations made thereunder. The details of conditions under which the licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

ANNEX A

(Clause 3)

A-0 Tape/Web asbestos shall conform to the following particulars.

A-1 MATERIALS

The asbestos yarns used for the manufacture of tape shall conform to IS 13362.

A-2 CONSTRUCTION AND OTHER DETAILS

Width (Average) mm	Number of Threads Approximately		Mass Metre (Approximately)	
	Ends in full width	Picks decimeter	Conditioned at 65 ± 2 percent Relative Humidity and 27± 2°C for 24 h in g	
25	15 (2 ply)	32 (2 ply)	35 to 40	

A-3 MANUFACTURE AND FINISH

The plies of the yarns used for making the tape shall properly be twisted together. The tape shall have a reasonably uniform thickness.

ANNEX B

(Clause 3)

PARTICULARS OF SEWING THREAD ASBESTOS

B-1 MATERIALS

The sewing thread asbestos shall be manufactured from long white tough chrysotile asbestos fibres from grit or rocky matter and from any metallic wire reinforcement or foreign fibres or yarns made from such fibres as may be necessary for its manufacture.

B-2 CONSTRUCTION AND OTHER DETAILS

The threads shall conform to the following particulars:

No. of Plies Min	<i>Length</i> m/kg	Minimum (Average) Breaking Strength kg	Hydroscopic Moisture Content Percent, Max	Further Loss on Ignition in Muffle Furnace Percent, Max
2	1 500 to 2 200	3.0	4	45

NOTES

1 For determination of length per unit mass, a minimum of 20 m length of thread shall be taken, conditioned in an atmosphere of 65 ± 2 percent relative humidity and a temperature of $27 \pm 2^{\circ}$ C for a period of 24 h and then weighed under the same condition.

2 For determination of breaking strength, the test piece shall be of such a length as to allow 600 mm clear and between the grips of the machine. The test piece shall be conditioned in an atmosphere of 65 ± 2 percent relative humidity and a temperature of $27 \pm 2^{\circ}$ C for a period of 48 h and then broken in a suitable single thread tester, in which it is stretched at a constant rate of 300 mm/min. The breaking strength of the sewing thread shall be the average results of 20 test specimens.

Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act*, 1986 to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Director (Publications), BIS.

Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of 'BIS Catalogue' and 'Standards: Monthly Additions'.

This Indian Standard has been developed from Doc : No. CED 36 (6069).

Amendments Issued Since Publication

Amend No. Date of Issue Text Affected **BUREAU OF INDIAN STANDARDS** Headquarters : Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110 002 Telegrams : Manaksanstha Telephones : 2323 0131, 2323 33 75, 2323 9402 (Common to all offices) **Regional Offices :** Telephone Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg 2323 7617 **NEW DELHI 110 002** 2323 3841 Eastern : 1/14 C.I.T. Scheme VII M, V. I. P. Road, Kankurgachi 2337 8499, 2337 8561 **KOLKATA 700 054** 2337 8626, 2337 9120 { 60 3843 60 9285 Northern : SCO 335-336, Sector 34-A, CHANDIGARH 160 022 Southern : C.I.T. Campus, IV Cross Road, CHENNAI 600 113 2254 1216, 2254 1442 2254 2519, 2254 2315 Western : Manakalaya, E9 MIDC, Marol, Andheri (East) 2832 9295, 2832 7858 MUMBAI 400 093 2832 7891, 2832 7892 Branches : AHMEDABAD. BANGALORE. BHOPAL. BHUBANESHWAR. COIMBATORE. FARIDABAD. GHAZIABAD. GUWAHATI. HYDERABAD. JAIPUR. KANPUR. LUCKNOW. NAGPUR. NALAGARH. PATNA. PUNE. RAJKOT. THIRUVANANTHAPURAM. VISAKHAPATNAM.