


**International Federation
of Red Cross and Red Crescent Societies**


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or

or

Contact

Volume 1

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Blanket, synthetic
(Household > Bedding and clothes)
last updated : 2016/10/25




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Volume 2

- Drug products
- Medical disposable supplies
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Code	Description	Ind. price	Ship. weight	Ship. vol.	
HSHEBLANPHT1	BLANKET, SYNTHETIC, 1.5X2m, high thermal	CHF 4,00	2kg		+ ADD
HSHEBLANPLT1	BLANKET, SYNTHETIC, 1.5x2m, low thermal	on request			+ ADD
HSHEBLANPMT1	BLANKET, SYNTHETIC, 1.5X2m, medium thermal	on request	1,6kg		+ ADD

Volume 3

- Basic health care ERU
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General information

The synthetic blankets are made of virgin fibres such as polyester or acrylic. Some cotton may be included in the yarns.

The insulation capacity of a blanket depends of the thermal resistance (Rct) and of the air permeability of the material. The thermal resistance does not depend only on the weight or the raw material, but also on the fibre quality, the type of weaving or knitting, and fibre raising.

- Low Thermal type, with Rct=0.15 is appropriate for indoor use, on a bed, in a house with heating facilities.
- Medium thermal type, with Rct=0.25, is the minimum for hot or temperate climates outdoor use (even in hot countries, nights can be cold).
- High thermal type, with Rct=0.4, is appropriate for cold climates.

Scientific studies defined that indoors at 20°C a person at rest requires a total insulation of Rct=0.15. Outdoors with no wind the value at 10°C is Rct=0.4, at 0°C it is Rct=0.6, at -10°C it is Rct=0.8 and at -20°C it is Rct=0.95. Bearing in mind that a part of the insulation comes from the clothing, the rest will come from the blanket.

- The Rct value can only be tested in a textile laboratory.
- Low air permeability ensures protection from draughts, while inherent breathability allows evacuation of body perspiration.
- In previous publications, the Thermal Resistance was given as ToG (Thermal Resistance of Garment). It is important to note that ToG=1 is identical with Rct=0.1. The major difference is the laboratory equipment to control these values. The Rct test is more accurate than the ToG test.

Other colours than the standard are available at higher costs and longer lead-time.

Blankets are subject to International Purchase Frame Agreements with validated manufacturers. Please refer to your HQ before purchasing.

Specifications

HSHEBLANPLT1	BLANKET, SYNTHETIC, 1.5x2m, low thermal
Samples for testing purpose	Samples of blankets must be from compressed bales. All criteria to be passed on the same sample. (Samples of compressed bales to be prepared with only 5 blankets folded once more than in normal bales, at 40% compression ratio, and to remain compressed for one week minimum before testing).
Make	Knitted or woven, dry raised both sides.
Content ISO 1833 on dry weight	100% virgin polyester and/or acrylic fibres or polyester/cotton
Colours	Other than black, red, or white, dark uniform colour.
Size	150 x 200cm +3%/-1%. To be taken on flat stabilised sample, without folds.
Weight	

	200g/m2 minimum maximum 400g/m2 weight determined by total weight/total surface.
Thickness ISO 5084	3.5mm minimum (1kPa on 2000mm²)
Tensile strength ISO13934-1	250N warp and weft minimum
Tensile strength loss after washing ISO13934-1 and ISO 6330	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
Shrinkage maxi. ISO 6330	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
Weight loss after washing	Maximum 5% after 3 consecutive machine washing at 30°C and one flat drying.
Thermal resistance ISO 11092	Rct= 0.15m².K/W minimum, rounded to the nearest 0.01, passed on samples picked from compressed bales. Mechanical conditioning: after opening of the bale, the blanket shall be dry tumbled in a dryer (500l minimum capacity) without any other load for 15 minutes at a temperature of less than 30°C. Then, the blanket shall be conditioned for at least 24 hours by flat lying at ambient conditions (20°C and 65% Relative Humidity).
Resistance to air flow ISO9237 under 100Pa pressure drop	Maximum 1500 L/m²/s
Finish	Whipped seam at 10mm from the edge with 10 to 13 stitches/10cm or stitched ribbon or hemmed on 4 sides. Corners can be round up to 10cm radius, or square.
Organoleptic test	No bad smell, not irritating to the skin, no dust. 4<pH<9. Free from harmful VOC (Volatile Organic Components). Fit for human use.
Fire resistance ISO12952-1	Resistance to cigarette - No ignition
Fire resistance ISO12952-2	Resistance to flame - No ignition
Packing	- Bales to be wrapped in a water-tight micro perforated plastic film and covered with a polypropylene or jute woven bag. - Quantity per bale: 20 pieces. - Compressed and strapped with 5 straps (2 lengthwise, 3 crosswise). - Bales dimensions: Length 85cm +/-5cm, Width 55cm +/-5cm, Height 0.40 cm +/-5 cm (height of the bales to be compressed by maximum 40% from free state to final compressed and strapped state).
Marking on the blanket	Every blanket should include a tag, stitched in the hem. The tag should include the manufacturer's name, a unique reference batch number and the date of manufacturing. No company logo should be included with the manufacturer's marking.
Marking on the package	BLANKET, SYNTHETIC, 1.5x2m, low thermal - 20 pieces. Other markings as specified in contract.

HSHEBLANPMT1	BLANKET, SYNTHETIC, 1.5x2m, medium thermal
Samples for testing purpose	Samples of blankets must be from compressed bales. All criteria to be passed on the same sample. (Samples of compressed bales to be prepared with only 5 blankets folded once more than in normal bales, at 40% compression ratio, and to remain compressed for one week minimum before testing).
Make	Knitted or woven, dry raised both sides.
Content ISO 1833 on dry weight	100% virgin polyester and/or acrylic fibres or polyester/cotton
Colours	Other than black, red, or white, dark uniform colour.
Size	150 x 200cm +3%/-1%. To be taken on flat stabilised sample, without folds.
Weight	400g/m2 minimum maximum 700g/m2 weight determined by total weight/total surface.
Thickness ISO 5084	6.5mm minimum (1kPa on 2000mm²)
Tensile strength ISO13934-1	250N warp and weft minimum
Tensile strength loss after washing ISO13934-1 and ISO 6330	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
Shrinkage maxi. ISO 6330	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
Weight loss after washing	Maximum 5% after 3 consecutive machine washing at 30°C and one flat drying.
Thermal resistance ISO 11092	Rct= 0.25m².K/W minimum, rounded to the nearest 0.01, passed on samples picked from compressed bales. Mechanical conditioning: after opening of the bale, the blanket shall be dry tumbled in a dryer (500l minimum capacity) without any other load for 15 minutes at a temperature of less than 30°C. Then, the blanket shall be conditioned for at least 24 hours by flat lying at ambient conditions (20°C and 65% Relative Humidity).
Resistance to air flow ISO9237 under 100Pa pressure drop	Maximum 1000 L/m²/s
Finish	Whipped seam at 10mm from the edge with 10 to 13 stitches/10cm or stitched ribbon or hemmed on 4 sides. Corners can be round up to 10cm radius, or square.
Organoleptic test	No bad smell, not irritating to the skin, no dust. 4<pH<9.

	Free from harmful VOC (Volatile Organic Components).
	Fit for human use.
Fire resistance ISO12952-1	Resistance to cigarette - No ignition
Fire resistance ISO12952-2	Resistance to flame - No ignition
Packing	- Bales to be wrapped in a water-tight micro perforated plastic film and covered with a polypropylene or jute woven bag. - Quantity per bale: 20 pieces. - Compressed and strapped with 5 straps (2 lengthwise, 3 crosswise). - Bales dimensions: Length 85cm +/-5cm, Width 55cm +/-5cm, Height 70 cm +/-5 cm (height of the bales to be compressed by maximum 40% from free state to final compressed and strapped state).
Marking on the blanket	Every blanket should include a tag, stitched in the hem. The tag should include the manufacturer's name, a unique reference batch number and the date of manufacturing. No company logo should be included with the manufacturer's marking.
Marking on the package	BLANKET, SYNTHETIC, 1.5x2m, medium thermal - 20 pieces.
	Other markings as specified in contract.

Specifications

HSHEBLANPHT1	BLANKET, SYNTHETIC, 1.5x2m, high thermal
Samples for testing purpose	Samples of blankets must be from compressed bales. All criteria to be passed on the same sample. (Samples of compressed bales to be prepared with only 5 blankets folded once more than in normal bales, at 40% compression ratio, and to remain compressed for one week minimum before testing).
Make	Knitted or woven, dry raised both sides. If any, inner layer can be non-woven type.
Content ISO 1833 on dry weight	100% pure polyester and/or acrylic fibres or polyester/cotton
Colours	Other than black, red, or white, dark uniform colour.
Size	150 x 200cm +3%/-1%. To be taken on flat stabilised sample, without folds.
Weight	600g/m ² minimum maximum 1000g/m ² weight determined by total weight/total surface.
Thickness ISO 5084	9.5mm minimum (1kPa on 2000mm ²)
Tensile strength ISO13934-1	250N warp and weft minimum
Tensile strength loss after washing ISO13934-1 and ISO 6330	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
Shrinkage maxi. ISO 6330	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
Weight loss after washing	Maximum 5% after 3 consecutive machine washing at 30°C and one flat drying.
Thermal resistance ISO 11092	Rct= 0.40m².K/W minimum, rounded to the nearest 0.01, passed on samples picked from compressed bales. Mechanical conditioning: after opening of the bale, the blanket shall be dry tumbled in a dryer (500l minimum capacity) without any other load for 15 minutes at a temperature of less than 30°C. Then, the blanket shall be conditioned for at least 24 hours by flat lying at ambient conditions (20°C and 65% Relative Humidity).
Resistance to air flow ISO9237 under 100Pa pressure drop	Maximum 1000 L/m ² /s
Finish	Whipped seam at 10mm from the edge with 10 to 13 stitches/10cm or stitched ribbon or hemmed on 4 sides. Corners can be round up to 10cm radius, or square.
Organoleptic test	No bad smell, not irritating to the skin, no dust. 4<pH<9. Free from harmful VOC (Volatile Organic Components). Fit for human use.
Fire resistance ISO12952-1	Resistance to cigarette - No ignition
Fire resistance ISO12952-2	Resistance to flame - No ignition
Packing	- Bales to be wrapped in a water-tight micro perforated plastic film and covered with a polypropylene or jute woven bag. - Quantity per bale: 15pieces. - Compressed and strapped with 5 straps (2 lengthwise, 3 crosswise). - Bales dimensions: Length 85cm +/-5cm, Width 55cm +/-5cm, Height 75 cm +/-5 cm (height of the bales to be compressed by maximum 40% from free state to final compressed and strapped state)
Marking on the blanket	

	Every blanket should include a tag, stitched in the hem. The tag should include the manufacturer's name, a unique reference batch number and the date of manufacturing. No company logo should be included with the manufacturer's marking.
Marking on the package	BLANKET, SYNTHETIC, 1.5x2m, high thermal - 15 pieces. Other markings as specified in contract.

Emergency Items Catalogue ICRC/IFRC - Updated 2016-10-24



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