

## Item Application Sample



## General Information and Description

Blankets are used to provide insulation / protection against loss of body temperature, according to the requirements imposed by climate / temperature conditions. The insulation capacity of a blanket depends on two factors:

1. **The Thermal Resistance of Garments (TOG)**, a measurement of how well a material resists heat flow, where the higher the TOG rating, the better the insulation. It has to be noted that the TOG does not depend only on the weight or the raw material, but also on the fiber quality, the type of weaving or knitting, and fiber raising.
2. **The Air Permeability of the Material**, where low air permeability will ensure protection from draughts, while inherent breatheability allows evacuation of body perspiration.

Considerations for the selection of blankets and quilts:

- **Medium thermal blanket:** a blanket with 2.5 TOG is the minimum for outdoor use. Blankets with 2.5 TOG are also appropriate for indoor use without a heater. Medium thermal blankets are recommended for refugee camp situations in hot or mild cold climates / temperatures. It should be noted that even in hot countries, nights could be cold. Higher TOG values would be required for colder climates.
- **High thermal blanket:** a blanket with 4.0 TOG is the minimum for indoor use in cold climates.
- **Low thermal blanket:** a blanket with 1.5 TOG is considered a low thermal blanket, which is only appropriate for indoor use, on a bed, in a house with heating facilities. As a practical reference, a person resting indoor at 20 °C requires a total insulation of TOG 1.5. Low Thermal blankets are not included in UNHCR Frame Agreements, as they are not suitable for outdoor use.

**Outdoor use of blankets:** when considering outdoor use of blankets, where there is no wind, in a 10°C temperature, the TOG requirement for blanket is 4.0. At 0°C temperature, the TOG requirement is 6.0. At -10°C temperature, the TOG requirement is 8.0 and at -20°C temperature, the TOG requirement is 9.5. Taking into consideration that part of the insulation would come from the clothing; the rest should come from the blanket.

## CRI Pallet Details

Fumigated as per IPSM 15 standard. Dimensions (L x W x H): 1150 x 770 x 144 mm. Maximum height of the packed pallet: 115 cm. Pallets should be shrink-wrapped and strapped. The palletized goods must not exceed the length and width of the pallet. For further information please refer to section IV Pallet Information.

## Manufacturer Marking

Every blanket should include a tag, stitched in the hem, with the manufacturer identification (letters not higher than 2.5 cm). 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.

## Packing

High Thermal Synthetic Blankets are packed in bales of 15 pieces and the gross weight per bale should be between 22,5 and 38.25 kg approx. However different packing methods may be accepted in order to maximize loadability in pallets and containers.

**Bale dimensions:** 80 x 52 x 47 cm

**Bale wrapping:** bales to be wrapped in a water-tight micro perforated plastic film and covered with a polypropylene or jute woven bag. Compressed and strapped with 5 straps (2 lengthwise, 3 crosswise).

**Bale compression:** the height of the bales to be compressed by maximum 40% from free state to final compressed and strapped state. So, if the bale is 1 m high at free state, it should be compressed to a height of 0.6 m at final and strapped state.

## Optimal Shipping / Container Information

2415 blankets per 20' DC container (without pallets).

5100 blankets per 40' DC container (without pallets).

5625 blankets per 40' HC container (without pallets).

1680 blankets per 20' DC container (with pallets).

3600 blankets per 40' DC container (with pallets).

3600 blankets per 40' HC container (with pallets).

## Printing of UNHCR Logo

UNHCR visibility logo should be stitched as a label or inserted / printed / heat embossed on the blanket, placing the (long lasting) logo on the center of the blanket or in one corner. The size of the logo on the center of the blanket should be 40 cm wide and 48.88 cm high, and 20 cm wide and 24.44 cm high when placing the logo on a corner of the blanket.

The color of the logo should be white or blue, contrasting with the background of the blanket.

**Typeface (Font), Colour specifications for printing:**

Font: Helvetica Bold. Colour specification: Pantone Blue 300 or quadrichrome (CMYK). C = 100%, M = 45%, Y = 0%, K = 0%.

## Weight and Volume

**Gross weight per piece:** 1.5 to 2.55 kg approx.

**Gross weight per bale:** 22.5 to 38.25 kg approx.

**Gross volume per bale:** 80 x 52 x 47 cm / 0.2 m³

## Technical Specifications

### Expected Life Span

It has a minimum life span of 2.5 years and a shelf life of 7 years.

#### Important Requirement Regarding Laboratory Testing Conditions:

Specification under the normal textile test conditioning ISO139, 65% moisture and 20°C for 24 h.

#### Samples for testing purpose:

Samples of blankets must be from compressed bales and all criteria to be passed on the same sample.

Samples of compressed bales to be prepared with 6 blankets folded once more than in normal bales, at 40% compression ratio, and to remain compressed for one week minimum before testing.

Denomination and norms	Required minimum values
1. <b>Material</b>	Synthetic blankets are made of virgin fibers from polyester or acrylic materials. Some cotton may be included in the yarns.
2. <b>Make</b>	Knitted or woven, dry raised both sides, homogeneous.
3. <b>Content</b> , ISO 1833 On dry weight.	100% virgin polyester and/or acrylic fibers or polyester/cotton.
4. <b>Dimensions / Size</b>	150 x 200 cm +3% / -1%. To be taken on flat stabilized sample, without folds.
5. <b>Weight</b>	500 to 850 g/m <sup>2</sup> . Weight determined by total weight/total surface.
6. <b>Thickness</b> , ISO 5084	5 mm minimum (1 kPa on 2000mm <sup>2</sup> )
7. <b>Tensile strength</b> , ISO13934-1	250 N warp and weft minimum.
8. <b>Tensile strength loss after washing</b> , ISO13934-1 and ISO 6330.	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
9. <b>Shrinkage</b> , maxi. ISO 6330	Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying.
10. <b>Weight loss after washing</b>	Maximum 5% after 3 consecutive machine washing at 30°C and one flat drying.
11. <b>Thermal resistance</b> , ISO 5085-1	TOG 4.0 (or 0.4 m <sup>2</sup> .K/W) minimum, rounded to the nearest 0.1, passed on samples picked from compressed bales after 3 consecutive machine washing at 30°C and one flat drying.
12. <b>Resistance to air flow</b> , ISO9237 under 100 Pa pressure drop.	Maximum 1000 L/m <sup>2</sup> /s.
13. <b>Finish</b>	Whipped seam at 10 mm from the edge with 10 to 13 stitches/10 cm or stitched ribbon or hemmed on 4 sides.
14. <b>Organoleptic test</b>	No bad smell, not irritating to the skin, no dust. 4<pH<9. Free from harmful VOC (Volatile Organic Components). Fit for human use.
15. <b>Fire resistance</b> , ISO12952-1&2	Resistance to cigarette - No ignition.
16. <b>Fire resistance</b> , ISO12952-3&4	Resistance to flame - No ignition.
17. <b>Colors</b>	Other than black, red, or white, dark uniform color (i.e. dark blue, grey or brown).



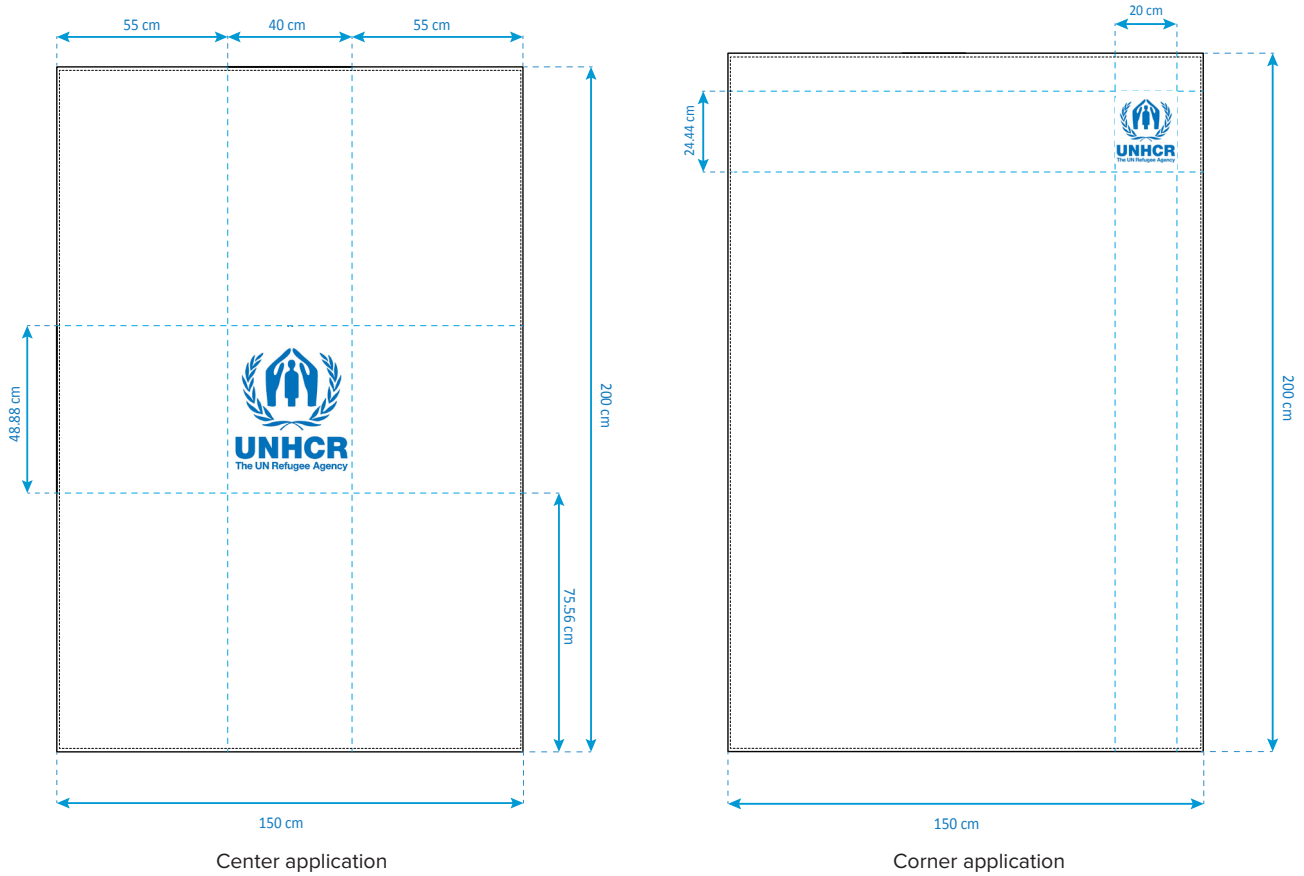
**UNHCR**

United Nations High Commissioner for Refugees  
Haut Commissariat des Nations Unies pour les réfugiés

**BLANKET, SYNTHETIC (Fleece)**  
**1.5 x 2 m, High Thermal**

**UNHCR Item No 05786**

**Graphic Reference**



**UNHCR Logo Application Reference**

