

**Annex 3: Technical information for Synthetic Blanket LT – MT - HT
testing for RFT/ICRC/GVA20/0075**

| Characteristics | Specification | Laboratory equipment related to each test (precise when tests are subcontracted) |
|-------------------------------------|---|---|
| Material | Woven, dry raised both sides, 100% virgin polyester and/or acrylic fibers or polyester/cotton (Content ISO 1833 on dry weight) | FTIR & Microscope |
| Colors | A uniform dark color that is not black (e.g. dark blue, grey, brown). No red or white. Color should be well fixed and not run with washing. Color fastness to laundering (accelerated) ISO 105 C06. Color change: grade 4; color staining: grade 3-4 A2S (modified to 30°C) | Visual inspection & Gyrowash |
| Length | Minimum: 198cm; Maximum: 206cm. To be taken on flat stabilized sample, without folds. | Calibrated meter |
| Width | Minimum: 148.5cm; Maximum: 154.5cm. To be taken on flat stabilized sample, without folds. | Calibrated meter |
| Weight | Low thermal: Minimum: 200g/m ² ; maximum: 400g/m ² . Weight determined by total weight/total surface. Medium thermal: Minimum: 400g/m ² ; maximum: 700g/m ² . Same protocol. High thermal: Minimum: 600g/m ² ; maximum: 1000g/m ² . Same protocol. | Balance & calibrated meter |
| Thickness | Low thermal: 3.5 mm minimum. ISO 5084 (1KPa on 2000mm ²) Medium thermal: 6.5 mm minimum. ISO 5084 (1KPa on 2000mm ²) High thermal: 9.5 mm minimum. ISO 5084 (1KPa on 2000mm ²) | Calibrated thickness meter |
| Tensile strength | 250N warp and weft minimum. ISO13934-1 | Instron 6025 |
| Tensile strength loss after washing | Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying. ISO13934-1 and ISO 6330 | Wascator FOM71 Instron 6025 |
| Shrinkage maxi. | Maximum 5% warp and weft after 3 consecutive machine washing at 30°C and one flat drying. ISO 6330 | Wascator FOM71 & M&S Plate |
| Weight loss after washing | Maximum 5% after 3 consecutive machine washing at 30°C and one flat drying. | Wascator FOM71 & balance |
| Thermal resistance ISO 11092 | Low Thermal: Rct= 0.15m ² .K/W minimum, rounded to the nearest 0.01, passed on samples picked from compressed bales. Mechanical conditioning: Opening of the blanket, then the blanket shall be dry tumbled in a dryer without any other load for 15 minutes at a temperature of less than 30°C. After that, the opened blanket shall be conditioned for at least 24 hours by flat drying at ambient conditions (20°C and 65% RH). Medium Thermal: Rct= 0.25m ² .K/W minimum, same protocol. High Thermal: Rct= 0.40m ² .K/W minimum, same protocol. | Tumber ISPO DR80 & Guarded Hotplate M259B-3 |

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| Resistance to air flow | Low thermal: Maximum 1500 L/m ² /s. ISO9237 under 100Pa pressure drop. Medium thermal: Maximum 1000 L/m ² /s, same protocol. High Thermal: Maximum 1000 L/m ² /s, same protocol. | Textest FX 3300 |
| Finishing | Whipped seam at 10mm from the edge with 10 to 13 stitches/10cm or stitched ribbon or hemmed on 4 sides. The edges finishing should be straight. The corners can be round up to a radius of 100mm maximum. | Visual inspection & Calibrated meter |
| Organoleptic test | No bad smell, not irritating to the skin, no dust. 4<pH<9. Free from harmful VOC (Volatile Organic Components). SNV 195651, assessment of skin irritation and assessment of dust. | GCMS & PH-meter |
| Fire resistance | Resistance to cigarette - No ignition. ISO12952-1&2 Resistance to flame - No ignition. ISO12952-3&4 | |
| Blanket identification | 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. | Visual inspection |
| Homogeneous quality | The blankets should be homogeneous and not presenting fibbers missing. | Visual inspection |
| Washing cost per sample | N/A | |

Total cost: EUR1'210.90

Lead time to perform complete tests: Approx. 5 weeks.

Address and contact person for samples:

CENTEXBEL
Technologiepark - Zwijnaarde 7
BE9052 Zwijnaarde
Belgium

Contact: Mr Daniël Verstraete
Mobile: +32 473 711 592
Direct phone : +32 9 220 49 55
e-mail: daniel.verstraete@centexbel.be