

NITA-COTTON®

Thermal and acoustic insulation of cotton fibres from recycled and regenerated clothing waste.

DELIVERY FORMAT

35 bags of 10 kg packed and shrink-wrapped on pallets of 1.00 x 1.20 x 2.20 metres and weighing 350 Kg.

MAIN CHARACTERISTICS

- High thermal and acoustic insulation capacity.
- Composition: cotton fibres (approx. 85%) and other textile fibres.
- Highly breathable and hygroscopic.
- Organic, renewable, recycled and recyclable.
- Prevents condensation in insulation chambers.
- Product treated against fungus and fire retardant.
- Free of toxic and/or allergenic agents.
- Durable and resistant over time.
- Non-abrasive and very easy to install.



ENERGY, GREENHOUSE GAS EMISSIONS AND ENVIRONMENTAL TOXICITY

Energy (MJ/kg)	Emissions (kgCO ₂ / kg)	Toxicity (PAF*m2yr)
7,46	0,46	0,068

CERTIFICATES



RMT INSULATION

ADDRESS: POLÍGONO INDUSTRIAL CAN MAGRE
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TECHNICAL CHARACTERISTIC

Technical characteristics		Thickness (mm)	Density	
			14+-3 kg / m ³	20 kg / m ³
Thermal conductivity "λ"	W / (m·K)	-	0,045 (Lab) 0,046 (CE)	0,042 (Lab)
Thermal resistance	(m ² ·K) / W	100	2,22	2,38
		150	3,33	3,57
		200	4,44	4,76
		250	5,56	5,95
		300	6,67	7,14
		350	7,77	8,33
Water vapour diffusion resistance coefficient	μ	-	1 to 4	1-4
Water absorption	EN 1609 (kg / m ²)	-	-	6,66
Hygroscopicity	% of its weight	-	up to 24 %	up to 24 %
Fire reaction	UNE-EN-ISO 11925-2	-	B-s2, d0	B-s2, d0
Resistance to fungi	EOTA Annex C	-	0	0

CONTRAINdicATIONS

- The product must not be in direct contact with water.
- Any additional treatment on the fibre not included in this data sheet may alter its properties and performance and automatically invalidates any warranty from the manufacturer.

PRECAUTIONS FOR USE NITA-COTTON

All elements that emit heat at high temperatures (e.g. chimneys, coils, transformers, motors, luminaires, etc.) must be kept at a distance of 20 cm from the insulation.

Provide perimeter frames on the elements in compliance with the standards in force. These frames can be made of fireproof PYL, with class A fire behaviour, or of insulating bricks 20% higher than the height of the planned insulation.

The hot spots must be protected with specific protection boxes (e.g. cover-lights) and be of sufficient height and diameter to ensure good protection.

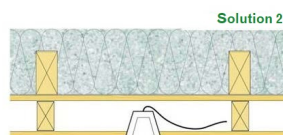
In all scenarios, it is imperative to respect NF DTU 24-1 for the treatment of flues. And DTU 70-1 and 70-2 for the treatment of electronic elements.



Possible installation on ventilated façade.



1. Brick wall
2. Vapour barrier
3. COTON-FRP Bulk Insulation
4. Vapour barrier
5. Metal fixings
6. External finish for ventilated façade



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