

## 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 <sub>2</sub> / kg)	Toxicity (PAF*m <sup>2</sup> yr)
7,46	0,46	0,068

## CERTIFICATES



## RMT INSULATION

ADDRESS: POLÍGONO INDUSTRIAL CAN MAGRE  
 C/ NARCÍS MONTURIOL 20-22  
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## TECHNICAL CHARACTERISTIC

Technical characteristics		Thickness (mm)	Density	
			14+-3 kg / m <sup>3</sup>	20 kg / m <sup>3</sup>
Thermal conductivity "λ"	W / (m·K)	-	0,045 (Lab ) 0,046 (CE)	0,042 (Lab)
Thermal resistance	(m <sup>2</sup> ·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 <sup>2</sup> )	-	-	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.

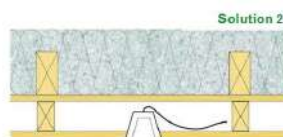
In all scenarios, it is imperative to respect NF DTU 24-1 for the treatment of flues. And DTU 70-1 and 70-2 for the treatment of electronic elements.



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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## NITA-COTTON®

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



## MAIN CHARACTERISTICS

- High thermal and acoustic insulation capacity.
- Composition: cotton fibres (>70%), polyester binder and other textile fibres.
- Breathable and hygroscopic.
- Organic, renewable, recycled and recyclable.
- Prevents condensation in insulation chambers.
- Product treated against fungi and fire retardant.
- Free of toxic and/or allergenic agents.
- Durable and resistant over time.
- Non-abrasive and very easy to install.

## DELIVERY FORMAT

Delivery format	Thickness	Density	Dimensions	U. per package	m2 per package	Packages per pallet	m2 per pallet
P-C56012040 / Plate	50mm	40 kg/m <sup>3</sup>	0,6m x 1,2m	10	7,2m <sup>2</sup>	12	86,2m <sup>2</sup>
M-C5607522 / Plate	50mm	24kg/m <sup>3</sup>	0,6m x 1,2m	10	7,2m <sup>2</sup>	12	86,4m <sup>2</sup>
P-C10601222 / Plate	100mm	24 kg/m <sup>3</sup>	0,6m x 1,2m	5	3,6m <sup>2</sup>	12	43,2m <sup>2</sup>

Each truck carries 20 pallets of measures: 1.2m x 1.2m x 2.5m  
 Special formats under minimum order of 70 m<sup>3</sup>  
 Special widths: from 40cm to 240cm  
 Special thicknesses: from 30 to 150mm  
 Special densities: from 22 to 80kg / m<sup>3</sup> (maximum weight 4kg / m<sup>2</sup>)



## ENERGY, GREENHOUSE EMISSIONS AND ENVIRONMENTAL TOXICITY

Energy (MJ/kg)	Emissions (kgCO <sub>2</sub> / kg)	Toxicity (PAF*m2yr)
9,69	0,7	0,075



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TECHNICAL CHARACTERISTICS		Thickness (mm)	Format	
			Plates 24 kg / m <sup>3</sup>	Plates 40 kg / m <sup>3</sup>
Technical characteristics				
Thermal conductivity "λ"	W / (m·K)	-	0,037 *	0,034
Thermal resistance	(m <sup>2</sup> ·K) / W	40	-	1,47
		50	1,39	-
		100	2,78	-
Water vapour diffusion resistance coefficient	μ	-	1	1
Hygroscopicity	% of its weight	-	up to 24%	up to 24%
Fire reaction	UNE-EN-ISO 11925-2	-	E	E

\*Lab results: 0,037 - Certified thermal conductivity λ 90/90 = 0,039

## 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.

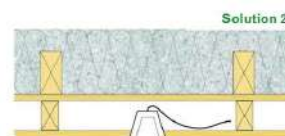
Provide perimeter frames on the elements in compliance with the standards in force. These frames can be made of fireproof PYL, with class A fire behaviour, or of insulating bricks 20% higher than the height of the planned insulation.

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.



Posible instalación en fachada ventilada.



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

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## NITA-WOOL®

Coils of treated sheep's wool. Suitable for use as insulation between joints (perimeter window and door frames, gaps between logs and timber boards, etc.) and to ensure the airtightness of the house.

## MAIN CHARACTERISTICS

- Great capacity for thermal and acoustic insulation.
- Composition based on 100% natural sheep's wool.
- Breathable and hygroscopic (up to 33% of its weight).
- Recyclable, from an organic and renewable source.
- Non-abrasive and very easy to install.
- Durable and resistant over time.



## TECHNICAL CHARACTERISTICS

Technical characteristics		
Thermal conductivity "λ	W/(m·K)	0,034
Approximate coil weight	Kg	9-10
Gramaje	Gr/m	45
Specific heat	J/kgK	1.760
Thickness	mm	20-60
Water vapour diffusion resistance coefficient	μ	1
Water absorption	kg/m2	≥ 2 kg/m2
Hygroscopicity	% of its weight	up to 33%
Fire reaction	UNE-EN-ISO 11925-2	F

## DELIVERY FORMAT

Rolls of approximately 200-220 linear metres in length.



## CONTRAINDICATIONS

- The product must not come into direct contact with water.
- The product must not be in direct contact with a heat source.
- 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.



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**NITA-WOOL®** thermal and acoustic insulation in **needlepunched** (mechanically bonded) felts based on the natural resource of wool generated in the sheep shearing process. Wool felts can have many applications: As thermal and acoustic insulation, they can be used in the interior of wall cladding and false ceilings. In gardening, they can be used to protect green roofs and urban gardens, providing nutrients to plants, maintaining the humidity of the system and reducing the use of substrate. They are very good shelters for plants in case of extreme temperatures.



## MAIN CHARACTERISTICS

- Great capacity for thermal and acoustic insulation.
- Composition based on 100% natural sheep's wool.
- Breathable and hygroscopic (up to 33% of its weight).
- Recyclable, from an organic and renewable source.
- Resistant over time.
- Non-abrasive and very easy to install.

## DELIVERY FORMAT

- Needle punched felts of 5mm x 1,2m x 25m.
- Shrink-wrapped on pallets of 1.20 x 1.20 x 2.20 metres high and weighing 300 kg. 19 units per pallet.

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**TECHNICAL CHARACTERISTICS**

Technical characteristics		Punched (450 gr/m2)
Thermal conductivity "λ	W/(m·K)	0,034
Thermal resistance	(m2·K)/W	0,18
Water vapour diffusion resistance coefficient	μ	1
Horizontal water absorption	kg/m2	4,54
Water absorption inclined at 45°.	kg/m2	1,64
Hygroscopicity	% of its weight	up to 33%
Fire reaction	UNE-EN-ISO 11925-2	F

**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.



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**NITA-WOOL®** thermal and acoustic insulation with **thermo-fixed felts**, from wool, which is generated in the shearing process, and polyester. Wool felts have various applications. As thermal insulation, they can be applied both on finishing surfaces (walls and curtains) and on the inside of the interior of wall linings and false ceilings. As acoustic insulation, they are a practical shock absorber under parquet, and also prevent reverberation when installed as wall and ceiling cladding.



## MAIN CHARACTERISTICS

- Great capacity for thermal and acoustic insulation.
- Composition: 100% natural sheep's wool and thermo-fixed with 10% polyester.
- Breathable and hygroscopic (up to 33% of its weight).
- Recyclable, from an organic and renewable source.
- Condensation in insulation chambers.
- Free of toxic agents and/or allergens.
- Resistant over time.
- Non-abrasive and very easy to install.

## DELIVERY FORMAT

- 3mm x 1.2m x 25m heat-shrunked felt.
- Shrink-wrapped on pallets of 1.20 x 1.20 x 2.20 metres high and weighing 300 kg. 19 units per pallet.

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**TECHNICAL CHARACTERISTICS**

Technical characteristics		Thermofixing (450 gr/m2)
Thermal conductivity " $\lambda$ "	W/(m·K)	0,038
Thermal resistance	(m <sup>2</sup> ·K)/W	0,11
Water vapour diffusion resistance coefficient	$\mu$	1
Horizontal water absorption	kg/m <sup>2</sup>	3,29
Water absorption inclined at 45°.	kg/m <sup>2</sup>	1,66
Hygroscopicity	% of its weight	up to 33%
Fire reaction	UNE-EN-ISO 11925-2	F

**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.



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## NITA-HEMP®

Thermal and acoustic insulation in long fibre mats from the core part of the hemp plant the hemp plant (*cannabis sativa*). It is a natural and renewable material.



## MAIN CHARACTERISTICS

- High thermal and acoustic insulation capacity.
- Composition: hemp fibres (>80%) and polyester binder.
- Breathable and hygroscopic.
- Organic, recyclable and from a renewable source.
- Free of toxic and/or allergenic agents.
- Durable and resistant over time.
- Non-abrasive and very easy to install.



## DELIVERY FORMAT

Edges of 50mmx 0,6m x 10m in packs of 2 rolls.



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## TECHNICAL CHARACTERISTICS

Technical characteristics		Thickness (mm)	Format
			Cloaks 30 kg / m <sup>3</sup>
Thermal conductivity "λ	W / (m·K)	-	0,041
Thermal resistance	(m <sup>2</sup> ·K) / W	50	1,22
		100	2,44
Water vapour diffusion resistance coefficient	μ	-	1
Hygroscopicity	% of its weight	-	12 % ±5%
Fire reaction	UNE-EN-ISO 11925-2	-	F

## CONTRAINdicATIONS

- The product cannot be in direct contact with water.
- Any additional treatment on the fiber not included in this information sheet, it may alter its properties and performance and automatically invalidates any warranty on the part of the manufacturer.

## PRECAUTIONS FOR USE NITA-HEMP

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.



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## Vegetal Cover

Mulches for garden coverings. They are composed of wool fibre and hemp fibre, providing plants with nutrients of animal and vegetable origin.



## MAIN CHARACTERISTICS

- Improve the insulation of the roof
- Protect it from plant roots
- Maintain the humidity necessary for the development of the plants.
- Lighten the weight of the whole system.



## TECHNICAL CHARACTERISTICS

Characteristics VEGETAL COVER	
Composition	50% sheep's wool 50% hemp
μ	1
Hygroscopic coefficient	Up to 30% of its weight
Fire reaction	F
Delivery format	Packs of 1 mantle

## DELIVERY FORMAT

Format of the mantles							
Code	Thick-ness (mm)	Density (kg/m <sup>3</sup> )	Thermal resistance (m <sup>2</sup> ·K)/W	Water absorp-tion at 45° (30min)	Water absorp-tion at 0° (10min)	Width (m)	Long (m)
VA-VC31102025	30	25	0,81	4,6 l/m <sup>2</sup>	11,7 l/m <sup>2</sup>	1,2	20

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**NITA-CAR®** Machine for injecting and blowing fibre thermal insulation. Manufactured by RMT ISOLATION SL

Specially designed for the application of **NITA-WOOL®** and **NITA-COTTON®** products in flock. **NITA-CAR®**, is prepared to work with both short fibres (glass wool, rock wool\*, cellulose) and long fibres (sheep's wool and other natural insulations).



Features NITA-CAR 101-X	
Code	CAR-101X
Dimensions	105 kg
Single-phase power supply	220V 50Hz 2,2 kW
Motor Turbine, electronic variator	2,2 kW
Tube diameter	100 mm
Maximum tube length	30 m
Maximum altitude	10 m
Fibre flow rate kg	400-500 kg/h

Features NITA-CAR 103-X	
Code	CAR-103X
Dimensions	325 kg
Single-phase power supply	220V 50Hz 3 kW
Motor Turbine, electronic variator	2,2 kW
Tube diameter	100 mm
Maximum tube length	30 m
Maximum altitude	10 m
Fibre flow rate kg	500-600 kg/h



\*To work with abrasive fibres, please contact us beforehand.

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**COVERLIGHTS** or luminaire protectors are designed to protect the insulation from the heat emitted by the light points and to improve the airtightness of false ceilings, preventing temperature losses through the cavities of the installations. Coverlights are fireproof, have insulating capacity and can be covered by insulation.



Coverlights Features		
Code	COM-COV15	COM-COV20
Height	15 cm	20 cm
Base diameter	24 cm	29 cm
Top diameter	8,5 cm	17,25 cm
Fire resistance	A1	A1
Maximum Watts	50W	50W



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## CLEATS - MANTLE FIXINGS



Expanding PVC cleats with washer, suitable for fixing any type of insulation to walls.



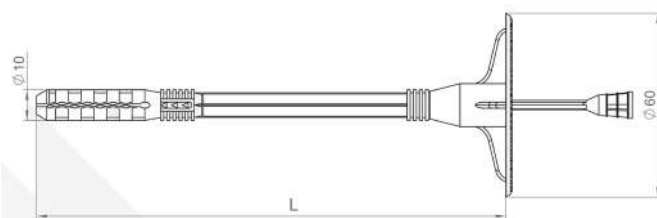
### DELIVERY FORMAT

Type of cleats			
£IN-100	100 mm	40-50 mm	400
£IN-140	140 mm	80-90 mm	350
£IN-160	160 mm	100-110 mm	300
£IN-200	200 mm	140-150 mm	200
£IN-260	260 mm	200-210 mm	150

### ASSEMBLY INSTRUCTIONS



### MEASURES



### CERTIFICATES



ETA-10/0214

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