TECNARIA INSULATION
Insulation technologies for industry

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Products in yellow glass wool felt

These types of products are obtained from bio-soluble glass wool felts made of at least 80% recycled glass, and a new generation thermosetting resin, which combines organic and vegetable components, minimising the emission in the air of polluting substances such as formaldehyde and other volatile organic compounds. Depending on specific requirements, they can be coated on one or both sides with smooth aluminium or aluminium mesh, white or black glass cloth, glass veil and other materials on request. They are extremely water-repellent, elastic and easy to handle and they also cannot decompose. They are chemically inert, resistant to bagging and are totally resistant to mould. Thanks to their characteristics, they can withstand considerable temperature changes. These products enjoy long-term stability in the foreseen conditions of use. They can be supplied with densities ranging from 15 to 60 kg/m3, depending on thickness and design, in order to obtain a product with correct resistance to handling. Thicknesses can vary from 15 to 40 mm. They are mainly used as heat insulation in the mass production of equipment mainly for domestic use (built-in ovens – kitchens).

Feature	Value		Unit of measurement	Standard
Reaction to fire	Euroclass A1		-	EN 13501
Melting temperature	900 °C		°C	DIN 4102/T17
Working temperature	≤ 250 °C		°C	EN 14706
Water vapour diffusion resistance (μ)	Infinite for practical purposes		-	EN 12086
Specific heat	1030		j/kg K	EN 12524
Thermal conductivity (λ) at an average temperature of:	**Density**			
	15kg/m3	22kg/m3	30kg/m3	55kg/m3
50 °C	0.053 W/m·K	0.040 W/m·K	0.038 W/m·K	0.036 W/m·K
100 °C	0.073 W/m·K	0.049 W/m·K	0.048 W/m·K	0.045 W/m·K
150 °C	0.101 W/m·K	0.062 W/m·K	0.059 W/m·K	0.055 W/m·K
200 °C	0.135 W/m·K	0.078 W/m·K	0.073 W/m·K	0.066W/m·K
250 °C	0.177 W/m·K	0.096 W/m·K	0.089 W/m·K	0.078 W/m·K

PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: straw-coloured material in a solid aggregate state.
- Maximum working temperature of product: the binder begins to decompose at a temperature of approximately 200°C.
- Hazardous products of decomposition: for uses at elevated temperatures, the decomposition of the binder at approximately 200°C produces carbon dioxide and traces of other gases. The duration and quantity of release depends on the thickness of the insulator, the binder content and the temperature applied. The first time it is heated good ventilation or personal protective equipment is required
- Flashpoint: irrelevant
- Flammability: irrelevant

PACKAGING

The products, die-cut or shaped according to customer specifications, can be packed in polythene bags or in cardboard boxes.