

## 1. IDENTIFICATION

<b>Grade</b>	BLACK INSULATION CORKBOARD - STANDARD DENSITY
<b>Scope</b>	Describe product composition, characteristics and other valuable information.
<b>Product Description</b>	Natural insulation corkboard is manufactured from the bark of the oak tree. The raw material is first granulated and then subject to heat and compression to form blocks

## 2. PHYSICAL PROPERTIES

	Unit	Specification
<b>Density</b>	Kg/m <sup>3</sup>	Aprox. 120
<b>Thermal conductivity (20°)</b>	w/mk	0,037 to 0,040
<b>Tensile strength on board surface</b>	Kg/cm <sup>2</sup>	0,094
<b>Transverse strength</b>	Kg/cm <sup>2</sup>	1,80
<b>Compressive strength</b>	Kg/cm <sup>2</sup>	0,2
<b>Limit of elasticity</b>	Kg/cm <sup>2</sup>	1,0
<b>Compression Stress</b>	Kg/cm <sup>2</sup>	1,78
<b>Specific Heat</b>	kJ/kg°C	1,67
<b>Resistance to diffusion of water vapor</b>	---	u5-30
<b>Working temperature</b>	° C	-200/+130
<b>Dynamic rigidity (for a thickness of 50mm)</b>	N/cm <sup>3</sup>	126
<b>Modus of elasticity</b>	N/mm <sup>2</sup>	5
<b>Vapor Conductivity</b>	g/mh mm	0,017- 0,003
<b>Coefficient of thermal expansion (20° C)</b>	---	25 to 50 x 10 <sup>-6</sup>
<b>Dimensional stability</b>	---	Stable - does not contract
<b>Compressive strength - 10% deformation</b>	---	KPA 90/100 (EN826)
<b>Perpendicular Tensile strength</b>	---	TR 50 (EN1607)
<b>Fire Resistance</b>	---	E class (EN13501-1) (Mark CE EN 13170)

Does not disintegrate in boiling water (3 hours test)

## 3. VALUABLE INFORMATION

<b>Storage</b>	The product should be kept at a temperature of 20 ± 30°C, and an Environmental humidity of 60 ± 5%.
<b>Environmental Health and Safety</b>	If properly used, this product is not known to be environmental harmful. Based on available toxicity tests, this product is not human hazard. Besides, as certified by the binder manufacturer, the type of glues and chemicals used in the manufacturing of our products are specially designed for the production of cork agglomerated being food grade products. There are no special health danger when handling the product, however, powder filter mask and protection glasses should be used in the case of sawing cut, sanding operations, etc. Variations in color, size and grain occur in all naturals materials.

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