

# Mineral Wool

## Insulating Blanket (IsoBlanket)

### Data sheet



With galvanized wire mesh on one (or both side by order)

Density kg/m<sup>3</sup> 80-200

Maximum service temperature °C 800

Thermal conduction coefficient W/mc

Density → Temp. ↓	80 kg/m <sup>3</sup>	100 kg/m <sup>3</sup>	120 kg/m <sup>3</sup>	150 kg/m <sup>3</sup>
50	0.046	0.044	0.042	0.050
100	0.054	0.050	0.048	0.056
150	0.064	0.058	0.054	0.061
200	0.075	0.074	0.061	0.067
300	0.097	0.084	0.077	0.085
400	0.118	0.110	0.094	0.109

Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	11.28
SiO <sub>2</sub>	32.95
CaO	37.22
MgO	12.54
TiO <sub>2</sub>	3.56
K <sub>2</sub> O	1.24

PH (ASTM C871-04) (@ 25C): 8.8

Cholor content (ASTM C871-04): 26 ppm

Due to its low silica content this product shall never cause silicosis nor any skin damage.

Is usable up to 750 °c and its melting point is 1300°C.

It is a non conductor of electricity, and will nit be damaged after many years storage.

It is fire resistant and will not react with any chemicals.

Its thermal conductivity is lower than similar product.

At sound frequencies of 500 Hz and more its absorption coefficient is 0.8.

## Mineral Wool Insulating BULK Data sheet

Maximum service temperature °c 800

Thermal conduction coefficient kcal/mh°c

At 50°c	0.038
At 100°c	0.042
At 150°c	0.049
At 200°c	0.055
At 300°c	0.068
At 400°c	0.083

Chemical Analysis (%)

Al <sub>2</sub> O <sub>3</sub>	11.28
SiO <sub>2</sub>	32.95
CaO	37.22
MgO	12.54
TiO <sub>2</sub>	3.56
K <sub>2</sub> O	1.24

Due to its low silica content this product shall never cause silicosis nor any skin damage.

Is usable up to 750 °c and its melting point is 1300°c.

It is a non conductor of electricity, and will nit be damaged after many years storage.

It is fire resistant and will not react with any chemicals.

Its thermal conductivity is lower than similar product.

At sound frequencies of 500 Hz and more its absorption coefficient is 0.8.

## Mineral wool pipe section

Due to low silica, this product shall never cause silicosis, or any skin damage. It is useable up to 750°C and its melting point is 1300°C and with having low thermal conductivity .it is resistant against the most chemical materials and will not react with them. It is a non conductor of electricity, and will not be damaged after many years of storage .it is suitable for sound absorption and its PH is less than 8-10.



specification	density kg/m3	dimension (mm)		
		length	width	thickness
coverless pre-formed pipe insulation	120-160 By order	500	diameter from 0.5 to 20 inches By order	25-100 By order
pre-formed pipe insulation with simple aluminum paper cover				
pre-formed pipe insulation with armed aluminum paper cover				
pre-formed pipe insulation without polish				

Chemical analysis:

component	MnO	FeO	TiO2	Al2O3	MgO	CaO	SiO2
weight %	0.97	0.76	2.83	10.45	10.9	36.51	36

Thermal conductivity (ASTM C335)

Temperature C	50	100	150	200	250	300
W/mK	0/046	0/052	0/056	0/062	0/08	0/092

## Mineral Wool Board

### Data sheet

Panel insulators are produced in form of rigid and semi rigid panels from resin mineral wool compressed by heavy warm presses and are applied for flat and low curved surfaces .effective resistance of mineral wool panel against heat is 350°C due for roof and with out cover due to its resin, and 750 °c for wall or covered cases and its refractoriness is 1300°C.



temp c	thermal conductivity coefficient w/mc			
	Density 80	100	120	150
50	0.047	0.048	0.047	0.054
100	0.056	0.054	0.052	0.059
150	0.068	0.065	0.061	0.065
200	0.07	0.068	0.065	0.071
250	0.085	0.083	0.071	0.081
300	0.87	0.09	0.082	0.085
400	0.122	0.138	0.115	0.11

specification	density kg/m3	length	width	thickness
coverless board insulation	80-500	max 1500	600-1000	25-100
coverless board insulation with simple aluminium paper cover in both side				
coverless board insulation with simple aluminium paper cover in one side				
coverless board insulation with armed aluminium paper cover in both side				
coverless board insulation with armed aluminium paper cover in one side				