



ROCKAL LOOSE WOOL ROCKAL LW

DESCRIPTION:

ROCKAL L.W is obtained spinning the molten basalt rocks into thin fibers which is then collected and processed to the production line in loose form. Such collection can be either directly or after breaking (carding)

AVAILABLE LOOSE PRODUCT:

- A. Long fiber
- B. carded in short fiber

DENSITIES:

50 kg/m³, 100 kg/m³ .150kg/m³

APPLICATION:


ROCKAL L.W is recommended for thermal , Condensation control improvement of soil –less culture and acoustical insulation applications as fire barrier in regular and /or irregular shape in the following positions :-

1	cavities	8	Ovens	14	Cements , foundry molds and boards
2	Fire proof doors	9	Improvement of soil –less culture	15	Flanges
3	Partitions	10	Car & exhausts manifold	16	Chimney & fireplace walls
4	Columns	11	Furnace behind brickwork	17	Oxygen plants
5	Cold boxes	12	Refrigerated cargo-bold	18	Tanks & boilers
6	Expansion joints	13	Fit Quickly into grooves and slots		
7	Insulation blankets for gas/steam turbine , diesel generator				



THERMAL CONDUCTIVITY:

When uniformly distributed in cavities or spaces and packed at densities in excess of 5 kg/m³, the following thermal conductivity values are obtained.

MEAN TEMPERATURE (°C)	THERMAL CONDUCTIVITY W/MK	
0	0.038	
50°	0.040	
100°	0.047	
150°	0.056	
200°	0.067	
250°	0.080	
300°	0.094	
350°	0.113	
400°	0.130	

SERVICE TEMPERATURE RANGE

ROCKAL L.W is suitable for use in all applications where the temperature is below zero °C and melting down to 270 °C and up to 750 °C the softening temperature of the fibers is above 900°C and melting point above 1100 °C

FIRE BEHAVIOR:-

ROCKAL L.W is non-combustible material when tested according to ASTM 136 and BS 476 part 4 it exhibits zero rating for all surfaces burning characteristics. It behaves in complete accordance with ASTM 84 with respect to flame spread & smoke developed and fuel contribution.

MOISTURE:-

The above mentioned products are water repellent non-hygroscopic and non-capillary. In addition, moisture has no effect on the stability of these products. The water vapor diffusion resistance factor (μ) is equal to 1, 3.

CHEMICAL NEUTRALITY:-

ROCKAL L.W chemical neutrals (inert) and it will not promote corrosion .it meets the ASTM C-795 (Standard specifications for use over austenitic stainless steel) .

Chemical composition

SiO^2	45%	TiO^2	2.58%	Fe^2O^3	15.11%
Al^2O^3	15.1%	Na^2O	3.17%	MgO	8.37%
CaO	9.3%	k^2O	0.85%	MnO	0.16%

PACKING:

Normally packed in polyethylene bags 10, 20 and 25 kg/each

