

Insulation for Sintering process of Diamond Tools Segments



PROVIDE ENERGY SAVING SOLUTIONS

Thermal Insulation Industries is engaged in manufacturing of High Temperature Thermal insulation boards(Non-Asbestos) like SINDHANIO-350,SINDHANIO-550,THERMO LIGHT & THERMO IMPACT. These boards are made using cement, Fibers & Mineral materials & have high mechanical strength with good insulation property.

Our company is based at Vadodara (Gujarat, India).

Our product "SINDHANIO-550" is best suitable as "INSULATION FOR SINTERING PROCESS OF DIAMOND TOOLS SEGMENTS"

In the process of manufacturing Diamond tools,The diamond segments are heated in Graphite Pack at very high temperature for increasing their strength.This graphite pack is separated from metallic frame using SINDHANIO-550 blocks. These blocks prevents heat to flow from Graphite pack towards metallic frame & thereby minimizes heat losses & achieves lot of ENERGY SAVINGS.

"SINDHANIO-550"exhibites very good performance due to its very low Thermal conductivity.

"SINDHANIO-550" is used as an replacement of Imported high cost – "ZIRCAR-RSLE-57" material.

Specification	Requirement As per IS:4248	Sindhanio 550 Obtained Value	Remarks
Continuous Operating Temperature	-	350 °C (Max)	-
Density (Kg/m ³)	-	1600	-
Thermal Conductivity (W/m °K)	-	0.6	-
Cross-breaking strength (Kg/cm ²)	Min. 300	310	Conforms
Crushing Strength (Kg/cm ²)	Min. 1055	1150	Conforms
Shear Strength (Kg/cm ²)	Min. 210	285	Conforms
Deformation under Compression, Kgf	Reduction in thickness shall not be greater than 5% nor shall mechanical failure occur, such as cracking or breaking when it is subject for one minute to a load of 4500 Kgf	Reduction in thickness: 2 % No mechanical failure such as cracking or breaking was observed	Conforms

Standard Sheet sizes available: - Thickness:- 5 , 6, 8, 10, 12, 16, 20, 25, 30, 32, 40, 50, 75 mm
Dimensions Of Sheet : 1050 mm(42") x 1200 mm(48")