



MANUFACTURERS OF
ELECTRICAL INSULATION MATERIALS
 INSULATING COMPONENTS FOR
 POWER SYSTEMS EQUIPMENT

TheGundCompany, Inc
 St. Louis, Missouri—USA
 TEL-314.423.5200
 FAX-314.423.9009

MATERIAL DATA SHEET

Item: Transite1000HighTemperatureCementBoard

Description: Transite1000isengineeredtohandlehighertemperatures,loadsandelectricalconditions withlessshrinkageanddegradationcomparedtopreviousnon-asbestosformulas.Transite1000isahigh-density,non-asbestosboardusedinawidevarietyofapplicationswherea combinationofhighstrength,thermalstability,electricalinsulationormachinabilityisrequired.

Transite1000ishydraulicallypressedintomonolithicboardsfromrefractorycementand selectednon-asbestosreinforcementandsilica.Theboardissteam-cured,ovendried,and sandedtoastandard24-gritfinish.

Transite1000isnon-combustibleandcanwithstand maximumoperationtemperaturesfrom 600°Fto1000 °F.Transite1000isverydurableandoffershigh impactandwearresistance. Italsohaslowthermalconductivity.

Availability:	LaminateSheets:	Thickness:	English units .5"—3"	SI Units 12.7mm—76.2mm
		SheetSizes:	48"x96"	122cmx243.8cm

FabricatedParts: TheGundCompanycustomfabricatesinsulationmaterials totheexactspecificationsanddrawingsofourcustomers.

Key Characteristics:	Test Method	Units - English (SI)	Typical Values		
Composition			Monolithicnon-asbestos fibercement		
Density		lbs/in ³ (g/cc)	0.057(1.58)		
MaximumServiceTemperature		°F(°C)	1000(538)		
Shrinkage		%	600°F	1000°F	
			Length,width	.14	.44
			Thickness	.41	1.33
CompressiveStrength	ASTMD-695 (flatwise)	psi(MPa)	13,350(92)		
ModulusofRupture,dry		psi(MPa)	3,000(21)		
ModulusofRupture/(Density) ²			.32		
NormalMoistureContent		%ofDW	7		
WaterAbsorption(1/8"thick)	ASTMD-570	%	21		
ThermalConductivity(250 °C)		BTU-in/ft ² /hr ⁰ /F	2.4		

All of the information, suggestions, and recommendations herein are based upon tests and data believed to be accurate; however, the final determination regarding the suitability of any material described herein for the use contemplated, the manner of such use, and whether the use infringes any patents is the sole responsibility of the user. There is no warranty, expressed or implied, including, without limitation, warranty of merchantability or fitness for a particular purpose. Under no circumstances shall we be liable for incidental or consequential loss or damage.

FireHazard	ASTMF-84		NoFlameSpread,No SmokeDeveloped
VolumeResistivity	ASTMD-257	Ohm/cm	1.25x10 ¹³
SurfaceResistivity	ASTMD-257	Ohm/cm	1.59x10 ¹⁶
ArcResistance	ASTMD-495	Sec	272
DielectricStrength(Perp.1/16",oil)	ASTMD-495	V/mil(kV/mm)	56(2.81)

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