



Technical Data Sheet Ceramic Fiber Products

Module		
Physical Properties		
Grade	1260°	1425°C
Color	White	
Density (kg/m³)	160-240	
Thickness (mm)	300	
Length & Width (mm)	300*300	
Mechanical Properties Of Blanket		
Tensile Strength (kg/cm²)	>0.4	
Mean Fiber Dia (micron)	2.0-4.0	
Shot content (%)	<20	
Thermal Properties Of Blanket		
Linear Shrinkage (%) at 1200°C & at 1400°C for 24hrs	<3.5	<4.0
Thermal Conductivity (W/m ⁰ K) at 600°C Mean Temp	<0.18	
Chemical Properties		
	1260°C	1425°C
SiO ₂ %	49-58%	42-57%
Al ₂ O ₃ %	41-48%	29-37%
ZrO ₂ %	0-7%	13-18%
Fe ₂ O ₃ %	Max 0.1%	Max 0.1%



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Board			
Chemical Composition (%)			
Al ₂ O ₃		40- 46	29- 37
SiO ₂		50- 58	42- 57
L.O.I		<8	<6
ZrO ₂		0- 7	13- 18
Fe ₂ O ₃		<0.1	<0.1
Classification Temperature (°C)		1260	1425
Density (kg/m ³)		300-380	300- 720
Compressive Strength (Kg/cm ²)			
1	10% Deformation	>3	>3
2	25% Deformation	>6	>6
Flexural Strength (Kg/m ³)		>7	>7
Permanent Linear Shrinkage %	1400°C	-	<4.0
	1200°C	<3.5	<2.0
K Value (W/Mk) at 600 Mean Temp		0.18	0.13



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Blanket							
Grade°C		1260			1425		
Density (Kg/m ³)		64	96	128	64	96	128
K Value (W/Mk)	At 200 Mean Temp	0.083	0.075	0.071	0.083	0.075	0.071
	At 300 Mean Temp	0.101	0.092	0.079	0.101	0.092	0.079
	At 400 Mean Temp	0.133	0.122	0.110	0.133	0.122	0.110
	At 500 Mean Temp	0.15	0.14	0.12	0.15	0.14	0.12
Tensile Strength (Kg/cm ²)		0.15	0.25	0.40	0.15	0.25	0.40
Shot Content %		<20			<20		
Mean Fiber DIA		2- 4			2- 4		
Chemical Analysis %	SiO ₂	49- 58			44- 48		
	Al ₂ O ₃	41- 48			29- 37		
	ZrO ₂	0- 7			13- 18		
	Fe ₂ O ₃	<0.1			<0.1		
Linear Shrinkage %	At 1200°C	<3.5			<4.0		



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Paper	
Physical Properties	
Grade°C	1260 & 1425
Density (KG/m ³)	220
Mechanical Properties	
Tensile Strength (kg/cm ²)	>0.6
Thermal Properties	
Linear Shrinkage % 1400°C for 24hrs.	<5
Linear Shrinkage % 1200°C for 24hrs.	<4
Thermal Conductivity (W/m ⁰ K) at 500°C Mean Temp	0.12
Chemical Properties %	
	For RTz Grade (1260°C)
SiO ₂	51- 57
Al ₂ O ₃	40- 45
ZrO ₂	0- 7
LOI	<8
	For HTz Grade (1425°C)
SiO ₂	42- 57
Al ₂ O ₃	29- 37
ZrO ₂	13- 17
LOI	<8