



AMI[®] Ceramic Fiber Products

AMI Ceramic Fiber Products include General Grade, High Alumina Grade, and Zirconium Grade.

AMI Ceramic Fiber Products are sorted into below items:

Customized Vacuum

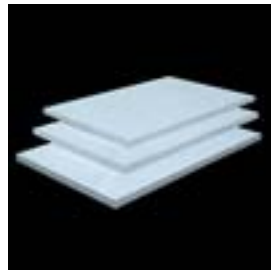
Blanket



Ceramic Fiber Paper



Board



Ceramic Fiber Bulk



Module/Precast Items



Ceramic Fiber Textile: Cloth, Tape, Rope, Wire



Forming Items



Technical Parameters of AMI[®] Ceramic Fiber Products

• Ceramic Fiber Blanket

Items		Common	Standard	Pure	High Al-	Zirconium
Graded Temperature (°C)		1100	1260	1260	1360	1430
Working Temperature (°C)		<1000	1050	1100	1200	1350
Color		White	Pure White	Pure White	Pure White	Pure White
Density (kg/m ³)		96 / 128	96 / 128	96 / 128	128 / 160	128 / 160
Permanent Linear Shrinkage (%)*		-4@1000°C	-3@1000°C	-3@1100°C	-3@1250°C	-3@1350°C
Thermal Conductivity (w/m · k)		0.09@400°C 0.176@800°C	0.09@400°C 0.176@800°C	0.09@400°C 0.22@1000°C	0.132@600°C 0.22@1000°C	0.76@600°C 0.22@1000°C
Tensile Strength (MPa)		0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12
Chemical Composition (%)	Al ₂ O ₃	44	46	47-49	52-55	39-40
	Al ₂ O ₃ + SiO ₂	96	97	99	99	-
	Al ₂ O ₃ +SiO ₂ +ZrO ₂	-	-	-	-	99
	ZrO ₂	-	-	-	-	15-17
	Fe ₂ O ₃	<1.2	<1.0	0.2	0.2	0.2
	Na ₂ O + K ₂ O	<0.5	<0.5	0.2	0.2	0.2
Size (mm)		Standard Size:7200x610x10-50mm, customized size is available.				

Re: * based on density 128kg/ m³, after 24 hrs. ** based on density 128kg/ m³

• Ceramic Fiber Board

Items		Common	Standard	Pure	High Al-	Zirconium
Graded Temperature (°C)		1100	1260	1260	1360	1430
Working Temperature (°C)		<1000	1050	1100	1200	1350
Color		White	Pure White	Pure White	Pure White	Pure White
Density (kg/m ³)		260 / 320	260 / 320	260 / 320	260 / 320	260 / 320
Permanent Linear Shrinkage (%)*		-4@1000°C	-3@1000°C	-3@1100°C	-3@1250°C	-3@1350°C
Thermal Conductivity (w/m · k) **		0.085@400°C 0.132@400°C 0.18@1000°C	0.085@400°C 0.132@400°C 0.18@1000°C	0.085@400°C 0.132@400°C 0.18@1000°C	0.085@400°C 0.132@400°C 0.18@1000°C	0.085@400°C 0.132@400°C 0.18@1000°C
Compressive Strength (MPa) ***		0.5	0.5	0.08-0.12	0.08-0.12	0.08-0.12
Chemical Composition (%)	Al ₂ O ₃	44	46	47-49	52-55	39-40
	Al ₂ O ₃ + SiO ₂	96	97	99	99	-
	Al ₂ O ₃ +SiO ₂ +ZrO ₂	-	-	-	-	99
	ZrO ₂	-	-	-	-	15-17
	Fe ₂ O ₃	<1.2	<1.0	0.2	0.2	0.2
	Na ₂ O + K ₂ O	<0.5	<0.5	0.2	0.2	0.2
Size (mm)		Standard Size:1200x1000x10-50mm, customized size is available.				

Re: * based on density 320kg/ m³, after 24 hrs. ** based on density 285kg/ m³

*** Thermal Shrinkage 10%

• Ceramic Fiber Module/Precast Items/ Customized Vacuum Forming Items

Items		Common	Standard	Pure	High Al-	Zirconium
Graded Temperature (°C)		1100	1260	1260	1360	1430
Working Temperature (°C)		<1000	1050	1100	1200	1350
Density (kg/m ³)		200-240	200-240	200-240	200-260	200-280
Permanent Linear Shrinkage (%)*		-4@1000°C	-3@1000°C	-3@1100°C	-3@1250°C	-3@1350°C
Tensile Strength (MPa) **		0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.12
Chemical Composition (%)	Al ₂ O ₃	44	46	47-49	52-55	39-40
	Al ₂ O ₃ + SiO ₂	96	97	99	99	-
	Al ₂ O ₃ +SiO ₂ +ZrO ₂	-	-	-	-	99
	ZrO ₂	-	-	-	-	15-17
	Fe ₂ O ₃	<1.2	<1.0	0.2	0.2	0.2
	Na ₂ O + K ₂ O	<0.5	<0.5	0.2	0.2	0.2
Size (mm)		Standard Size:300x300x100-350mm, customized size is available.				

Re: * based on density 220kg/ m³, after 24 hrs. ** based on density 220kg/ m³

• Ceramic Fiber Paper

Items		Common	Standard	Pure
Graded Temperature (°C)		1260	1260	1260
Density (kg/m ³)		200-220	200-220	200-220
Organic Content (%)		6-8	6-8	6-8
Permanent Linear Shrinkage (%)*		-3@1000°C	-3@1000°C	-3@1100°C
Tensile Strength (MPa) **		0.75	0.75	0.75
Thermal Conductivity (w/m • k) **	200°C	0.075-0.085		
	400°C	0.115-0.121		
	600°C	0.165-0.175		
Chemical Composition (%)	Al ₂ O ₃	45-46	45-46	45-46
	SiO ₂	51-52	51-52	51-52
Size (mm)		40000x1220x1	40000x1220x1	900x610x2
		20000x1220x2	20000x1220x2	10000x1200x5
		Customized size is available.		

Re: * based on density 210kg/ m³, after 24 hrs. ** based on density 210kg/ m³

• Ceramic Fiber Bulk / Ceramic Fiber Textile: Cloth, Tape, Rope, Wire

Items	Ceramic Fiber Bulk	Ceramic Fiber Textile			
		Cloth	Tape	Rope	Wire
Graded Temperature (°C)	1100,1260, 1360,1430	650, 1050			
Density (kg/m ³)		350-600			
Size (mm)	15kg/box	1000-1500 x 2-6	10-150 x 2-10	Dia.3-50mm	
		Customized size is available.			

• Expandable Gasket

Special mineral are added into the production of ceramic fiber blanket and achieve the inflatable performance. It is applied for the fixation of the fragile ceramic parts, and exerts the protection, sealing and soundproof functions. It is used in heat treatment, foundry, and vehicles, motorcycles ternary catalytic converters.

Expandable Gasket is composed of ceramic fiber, expandable material and binder, including standard type, complex type and non-expandable type.

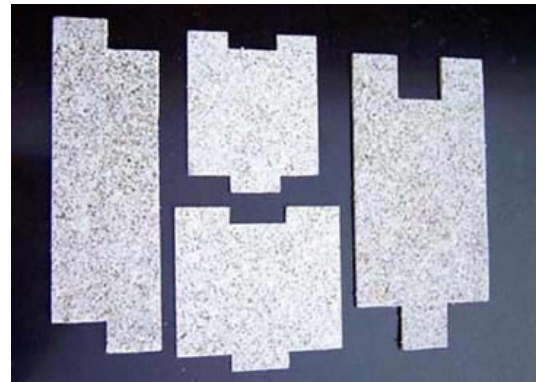
Advantages:

High working temperature, good corrosion resistance, low thermal conductivity, good airtightness, good soundproof effect.

Technical Parameters

Unit Weight (g/m ²)	1050	1550	2100	2600	3100	3662	4070	4300	4695	5200	6200	8140
Standard Thickness (mm)	1.70	2.46	3.33	4.15	4.90	5.40	6.02	6.32	6.90	7.65	9.12	12.04
Applicable Gap (mm)	0.82~ 1.05	1.36~ 1.55	1.85~ 2.10	2.36~ 2.60	2.82~ 3.10	3.33~ 3.66	3.70~ 4.07	3.91~ 4.30	4.13~ 4.70	4.58~ 5.20	5.64~ 6.20	7.16~ 8.10

Weight Tolerance	+/- 10%
Thickness Tolerance	+/- 12%
Working Temperature	200~1100°C
Tensile Strength	>100KPa
Pack Density	0.8~1.2g/cm ³



Welcome to contact us for more details.

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