



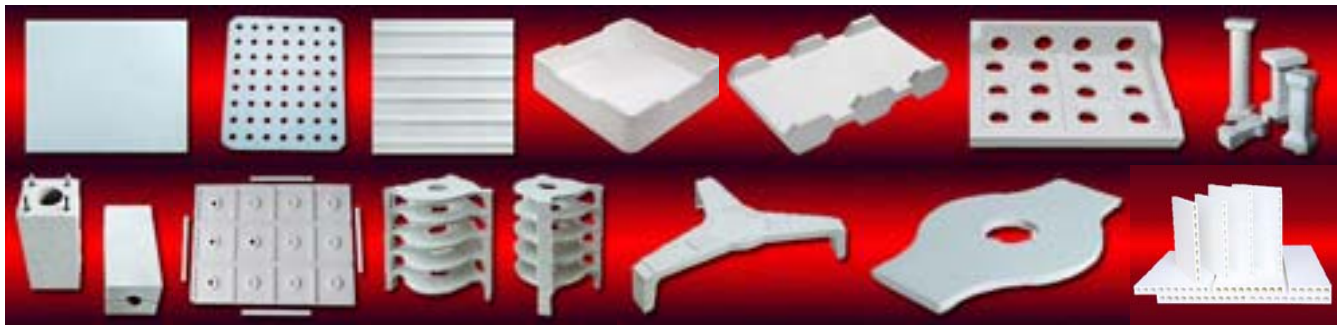
AMI® Kiln Furniture

Cordierite-Mullite-Corundum-Zirconia

AMI provide Cordierite-Mullite-Corundum-Zirconia series of kiln furniture for different industrial application.

Material system: Cordierite-Mullite-Corundum-Zirconia

Material	Available Items	Max. Working Temperature
Cordierite-Mullite	Saggar, Setter Slab, Props (Support), Fitting Caps, Splicer, Pusher Batts, Extruded Batts, Perforated Batts, Grooved Batts, Crank, Roof Plate, Kiln Car parts, Burner Block, Retaining Bar, Cast Stools, Roller Brick, Profile Items	1350°C
Mullite-Corundum	Saggar, Setter Slab, Pusher Batts, Burner Block, Guiding-Rail Brick, Crucible	1700°C
Zirconia-Alumina	Saggar, Setter Slab, Batts, Props (Support), Crucible	1700°C



Dimension and Tolerance

Available Maximum Dimensions

Items	Length	Width/Dia.	Thickness
Saggar,	400mm	400mm	150mm
Setter Slab, Batts (Pusher, Perforated, Grooved), Bar	1000mm	1000mm	40mm
Extruded Batts	1600mm	750mm	80mm
Props (Support)	1500mm	150mm	30mm
Crank, Cast Stools	800mm	460mm	80mm
Others	By Negotiation		

Available Tolerance

Items	Pressed Products	Extruded Products
Flatness	±0.3%, min. ±0.5 mm	±0.3%, min. ±1.0 mm
Length & Width	±1.0%, min. ±1.0 mm	±0.5%, min. ±1.0 mm
Thickness	±5.0%, min. ±1.0 mm	±3.0%, min. ±1.0 mm
Linearity	N/A	±0.3%, min. ±1.0 mm

Technical Parameters

▲ Cordierite-Mullite-Corundum

Items			Cordierite-Mullite	Mullite-Corundum	Corundum
Product Code			KA1300	KA1700	KA1800
Chemical Composition	Al₂O₃	%	35—65	65—90	90—99
	SiO₂	%	55—32	32—8	≤5
	MgO	%	8—5	≤3	
Bulk Density		g/cm³	≥1.75	≥2.6	≥3.0
Apparent Porosity		%	≤26	≤22	≤19
Refractoriness under load @ 0.2MPa		℃	≥1400	≥1650	≥1700
Thermal Expansion Coefficient @ 20—1200 ℃		10⁻⁶K⁻¹	≤3.5	≤7.6	≤8.6
Modulus of Rupture @ 20℃		MPa	≥11	≥13	≥80
Modulus of Rupture @ 1250℃		MPa	≥8	≥11	≥24
Thermal Shock Resistance		★	★★★★	★★★	★★
Max. Working Temperature		℃	≤1300	≤1700	≤1760

Re: Please chose suitable model in accordance with working conditions and technician's guide.

▲ Zirconia-Alumina

Product Code				KZ1700		
Chemical Composition	ZrO₂	%	≥94	Refractoriness under load @ 0.2MPa	℃	≥1700
	SiO₂	%	≤0.4	Thermal Expansion @ 20—1200 ℃	%	≤0.8
	MgO	%	≤0.1	Modulus of Rupture @ 20℃	MPa	≥90
Bulk Density		g/cm³	≥4.0	Thermal Shock Resistance(20-1500℃)	times	>40
Apparent Porosity		%	≤25	Max. Working Weight Load	g/cm²	<65
Color		Light Yellow		Max. Working Temperature	℃	1700

Re: Please chose suitable model in accordance with working conditions and technician's guide.

Please contact us for more information and proposal.

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