

KYLIN

Armor Ceramic Tiles & Armor Plates Catalogue

(**SSiC**/**Al₂O₃ 99%**/**Al₂O₃ 99.5%**)

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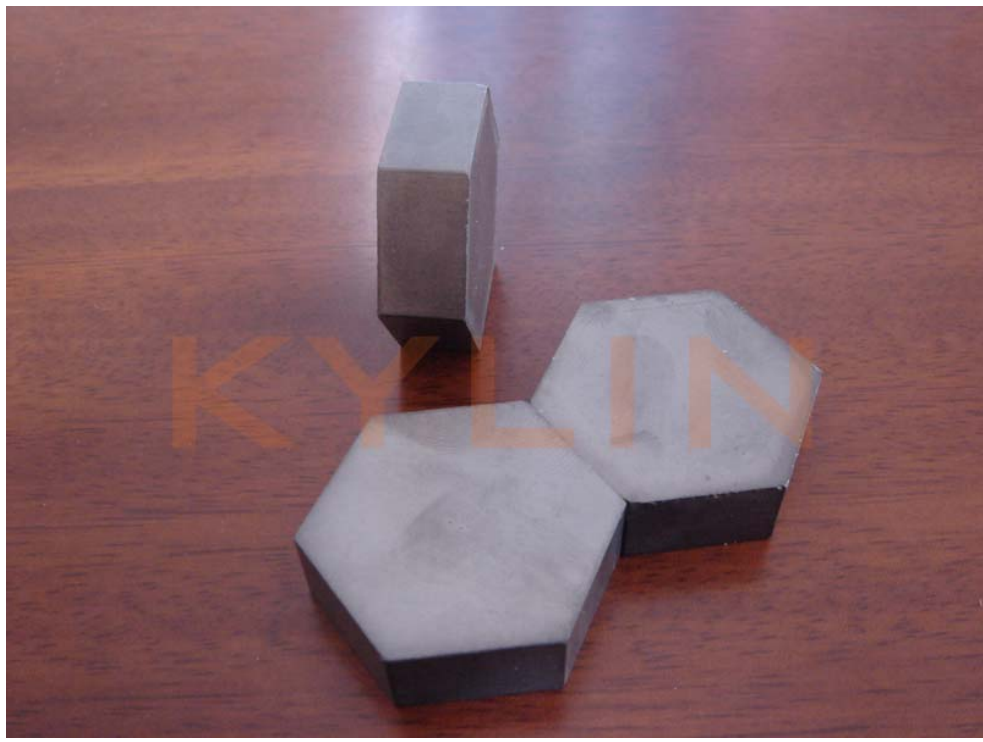
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Armor Ceramic Tiles & Plates

For Ballistic Body Armor, Vehicle Armor,
Armored Car & Aircraft Armor



Pressureless Sintered Silicon Carbide (SSiC) Physical Property

Technical Parameter	Unit	SSiC
Hardness	HS	115
Porosity Rate	%	<0.2
Density	g/cm ³	>3.10
Compressive Strength	MPa	>2500
Fractural Strength	MPa	>380
Coefficient of Heat Expansion	10 ⁻⁶ /°C	4.2
Content of Sic	%	≥98
Free Si	%	≤1
Elastic Modulus	GPa	≥410
Temperature	°C	1400

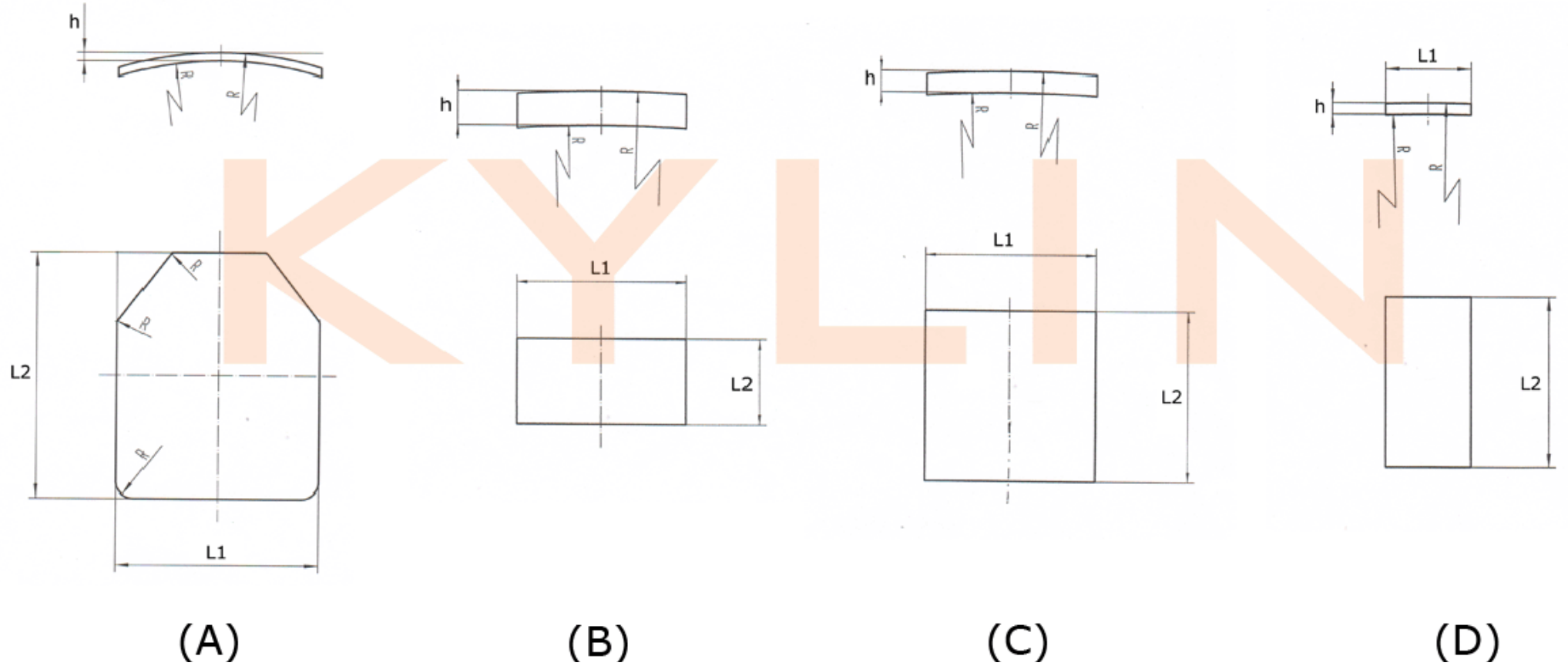
AL₂O₃ Ceramic physical property

Technical Parameter	Unit	99%	99.50%
Content of Al ₂ O ₃	%	99	99.5
Density	g/cm ³	3.88	3.9
Hardness	HRA	88	90
Porosity Rate	%	<0.2	<0.15
Fractural Strength	Mpa	310	350
Coefficient of Heat Expansion	10 ⁻⁶ /K	5.3	5.2
Thermal Conductivity	W/M.K	26.7	26

Product	Specification Distance between parallel sides(mm)*Thickness(mm)	Material
Hexagon	14.2*2.6	99% Cer
Hexagon	20*13	SSiC
Hexagon	27.7*6.2	SSiC
Hexagon	30*3.5	SSiC
Hexagon	30*3.9	SSiC
Hexagon	30*4	SSiC
Hexagon	30*4.1	99% Cer
		99.5% Cer
		SSiC
Hexagon	30*4.2	SSiC
Hexagon	30*5.1	99% Cer
Hexagon	30*6	99% Cer
		99.5% Cer
		SSiC
Hexagon	30*7	99% Cer
		SSiC
Hexagon	30*8	99% Cer
Hexagon	30*9.1	99% Cer
		SSiC
Hexagon	30*10	99.5% Cer
		99% Cer
		SSiC
Hexagon	30*10.5	SSiC
Hexagon	83.14*5	SSiC
Hexagon	83.14*6	SSiC
Hexagon	83.14*6.2	SSiC
Hexagon	83.14*6.5	SSiC
Hexagon	83.14*6.7	SSiC
Hexagon	83.14*8	SSiC
Hexagon	83.14*8.2	SSiC

Product	Specification Distance between parallel sides(mm)*Thickness(mm)	Material
Hexagon	83.14*10	SSiC
Hexagon	83.14*10.2	SSiC
Hexagon	83.14*10.5	SSiC
Hexagon	83.14*12	SSiC
Hexagon	83.14*15.5	SSiC
Hexagon	83.14*16	SSiC
Hexagon	83.14*16.2	SSiC
Hexagon	83.14*18	SSiC
Hexagon	83.14*18.2	SSiC
Hexagon	83.14*20.2	SSiC

Product	Specification W(mm)*H(mm)*Thickness(mm)	Material
Rectangle	4*3*36	SSiC
Rectangle	5*20*35	99% Cer
Rectangle	10*10*10	99.5% Cer
Rectangle	35*35*6	
Rectangle	35*35*8	
Rectangle	50*50*4	
Rectangle	50*50*5	
Rectangle	50*50*8	
Rectangle	50*50*10	
Rectangle	50*50*10.2	
Rectangle	50*50*10.3	
Rectangle	50*50*11	
Rectangle	50*50*12	
Rectangle	50*50*12.5	
Rectangle	50*50*15	
Rectangle	100*100*8	



Product	Type	Specification L1(mm)*L2(mm)*h(mm)	Material
Curved	(A)	145*145*9.3	SSiC
Curved	(A)	235*285*9.3	SSiC
Curved	(A)	235*285*10	SSiC
Curved	(A)	245*295*5	SSiC
Curved	(A)	245*295*5.5	SSiC
Curved	(A)	245*295*6	SSiC
Curved	(B)	25*50*3.3	99% Cer
Curved	(B)	25*50*5	SSiC
Curved	(B)	25*50*8	SSiC
Curved	(B)	25*50*9	SSiC
Curved	(B)	25*50*10	99% Cer
			SSiC
Curved	(B)	25*50*12	99% Cer
Curved	(C)	50*50*3.3	99% Cer
Curved	(C)	50*50*6	99% Cer
			SSiC
Curved	(C)	50*50*7	99% Cer
			SSiC
Curved	(C)	50*50*8	99% Cer
			SSiC
Curved	(C)	50*50*9.1	SSiC
Curved	(C)	50*50*10	99% Cer
			SSiC
Curved	(D)	50*25*6	99% Cer
			SSiC
Curved	(D)	50*25*7	99% Cer
Curved	(D)	50*25*9	99% Cer
Curved	(D)	50*25*10	SSiC