粘 土 砖 和 高 铝 砖

Fireclay Bricks & High alumina bricks

含 Al_2O_3 33-48%的有规整形状的硅酸铝制品。

Alumina-silicate products containing 33~48% of Al_2O_3 and in a certain shape,is called fireclay brick, widely used in blast furnace, thermal storage comber, soaking pit, annealing furnace, ladle, etc.

牌号 Brand	粘土砖 N 42		粘土砖 N-1		粘土砖 N-2a		粘土砖 N-3a	
	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data
化学成分 Chemical Analysis， % Al_2O_3	≥42	45		46				
显气孔率 Apparent Porosity， %	≤18	17	≤22	19	≤24	22	≤24	22
体积密度 Bulk Density， g/cm^3								
常温耐压强度 Cold Crushing Strength， MPa	≥39.2	52	≥30	51	≥25	48	≥20	25
荷重软化温度 $T_{0.6}$ ， ℃ Refractoriness Under Load at 0.196 MPa	≥1430	1440	≥1400	1410	≥1350	1400	≥1320	1350
重烧线变化， % Permanent Linear Change at 1400 ℃ * 2hr	0~−0.3	−0.1	+0.1 ~0.4	−0.1	+0.1 ~ −0.5	−0.1	+0.2~ −0.5	−0.2
耐火度， ℃ Refractoriness	≥1750	1750	≥1750	1750	≥1730	1750	≥1710	1710

高 铝 砖 High alumina bricks

牌号 Brand	高铝砖 L-48		高铝砖 L-55		高铝砖 L-75		高铝砖 L-80	
	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data
化学成分 Chemical Analysis， % Al_2O_3	≥48	49.68	≥55	59.80	≥75	78.60	≥80	81.70
显气孔率 Apparent Porosity， %	≤22	20	≤22	21	≤23	18	≤19	16
体积密度 Bulk Density， g/cm^3			(≥2.3)	2.35	(≥2.7)	2.8		
常温耐压强度 Cold Crushing Strength， MPa	≥39.2	50	≥44.1	46.5	≥53.9	74.8	≥78.5	94.6
荷重软化温度 $T_{0.6}$ ， ℃ Refractoriness Under Load at 0.196 MPa	≥1420	1470	≥1470	1500	≥1520	1530	≥1550	1600
重烧线变化， % Permanent Linear Change at 1400 ℃ * 2hr	+ 0.1~−0.4	−0.1	+0.1 ~−0.4	−0.2	+0.1 ~−0.4	−0.2	0~−0.3	−0.1
耐火度， ℃ Refractoriness	≥1750	1770 ~1790	≥1770	1790	≥1790	1790	≥1790	1790

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SHANGHAI KELEI MATERIAL CO., LTD

镁 砖 和 镁 铝 砖

Magnesite bricks & Magnesia -alumina bricks

镁 砖

Magnesite bricks

牌号 Brand	镁砖 Magnesite bricks MZ-87		镁砖 Magnesite bricks MZ-91		镁砖 Magnesite bricks MZ-95		镁铝砖 Magnesite-Alumina bricks ML-80	
	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data
化学成分， % Chemical Analysis								
MgO	≥87	89.23	≥91	91.99	≥95	95.48	≥80	81.70
CaO	≤3	2.30	≤3	2.30	≤2	1.68		
Al_2O_3							5~10	8.7
显气孔率 % Apparent Porosity	≤20	16	≤18	16	≤18	16	≤18	16
体积密度， g/cm^3 Bulk Density	≥2.85	2.95	≥2.85	2.95	≥2.90	3.00	2.90	3.00
常温耐压强度， MPa Cold Crushing Strength	≥39.2	86	≥58.8	101	≥58.8	90	≥39.2	62.2
荷重软化温度 $T_{0.6}$ ， ℃ Refractoriness Under Load at 0.196 MPa	≥1520	1560	≥1550	1600	≥1600	1600	≥1580	1600
重烧线变化， % Permanent Linear Change at 1400 ℃ * 2hr			0 ~一0.5					

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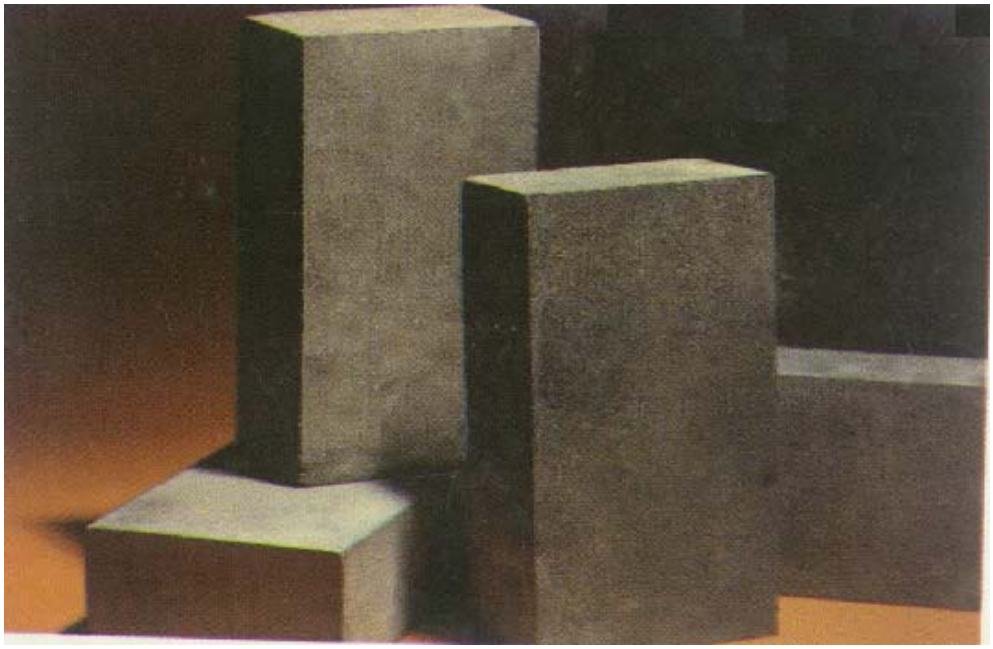
碳化硅砖及制品

Silicon Carbide Firebrick



牌号 Brand	碳化硅 Silicon Carbide Firebrick SIC-85		碳化硅 Silicon Carbide Firebrick SIC-80		碳化硅 Silicon Carbide Firebrick SIC-80	
	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data
化学成分， % Chemical Analysis SiC	≥85	86	≥80	81	≥70	71
显气孔率 % Apparent Porosity	≤15	12	≤15	14	≤22	20
体积密度， g/cm^3 Bulk Density	≥2.55	2.60	≥2.55	2.60	≥2.5	2.6
常温耐压强度， MPa Cold Crushing Strength	≥60	86	≥60	78	≥60	75
荷重软化温度 $T_{0.6}$ ， ℃ Refractoriness Under Load at 0.196 MPa	≥1700	1700	≥1600	1600	≥1500	1500
热膨胀率， % Thermal expansion at 1000℃	≤0.4		≤0.4			

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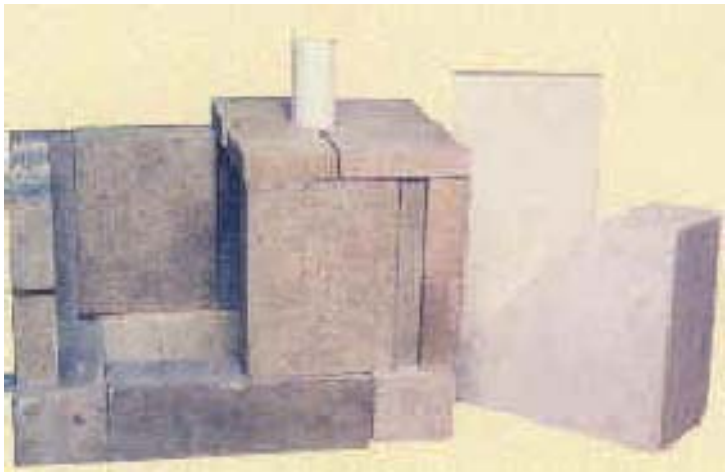
刚玉砖及制品

Corundum bricks



牌号 Brand	刚玉砖 Corundum Brick GYZ-98		刚玉砖 Corundum Brick GYZ-95		刚玉砖 Corundum Brick GYZ-90	
	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data
化学成分， % Chemical Analysis Al_2O_3	≥98	98.5	≥95	95.5	≥90	91
显气孔率 % Apparent Porosity	≤21	20	≤22	21	≤23	21
体积密度， g/cm^3 Bulk Density	≥2.9	2.95	≥2.9	2.95	≥2.8	2.95
常温耐压强度， MPa Cold Crushing Strength	≥100	130	≥100	110	≥100	105
荷重软化温度 $T_{0.6}$ ， ℃ Refractoriness Under Load at 0.196 MPa	≥1700	1700	≥1600	1600	≥1500	1600
重烧线变化， % Permanent Linear Change at 1550 ℃ * 2hr	＋0.1~－0.3	－0.1				

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轻质砖和隔热砖

Shaped insulating refractory products

牌号 Brand	NG-1.5	NG-1.3	NG-1.0	NG-0.9	NG-0.8	NG-0.7	NG-0.6	NG-0.5	NG-0.4
体积密度， g/cm3 Density	≤1.5	≤1.3	≤1.0	≤0.9	≤0.8	≤0.7	≤0.6	≤0.5	≤0.4
常温耐压强度， kgf/cm2 Cold Crushing Strength,	≥60	≥40	≥30	≥25	≥25	≥20	≥15	≥12	≥10
2%永久线收缩的试验温度 Permanent Linear Change 2% Test temp. , ℃	1400	1350	1350	1300	1250	1250	1200	1150	1150
导热系数， W/m.k Thermal conductivity, average temp. 350±25 ℃	0.70	0.6	0.5	0.4	0.35	0.35	0.25	0.25	0.2

牌号 Brand	LG-1.0	LG-0.9	LG-0.8	LG-0.7	LG-0.6	LG-0.5	LG-0.4
Al2O3, %	≥48						
Fe2O3, %	≤2.0						
体积密度，g/cm^3 Density,	≤1.0	≤0.9	≤0.8	≤0.7	≤0.6	≤0.5	≤0.4
常温耐压强度, kgf/cm^2 Cold Crushing Strength	≥40	≥35	≥30	≥25	≥20	≥15	≥8
2%永久线收缩的试验温度 Test temp. Permanent Linear Change 2%, ℃	1400	1400	1400	1350	1350	1250	1250
导热系数， (average temp. 350±25 ℃) Thermal conductivity, W/m.k	≤0.50	≤0.45	≤0.35	≤0.35	≤0.30	≤0.25	≤0.20

牌号 Brand	HGA-1.2	HGA-1.0	HGA-0.8	HGA-0.6	HGA-0.5
Al2O3, %	≥65	≥65	≥65	≥50	≥48
Fe2O3, %	≤0.9	≤0.9	≤0.9	≤1.0	≤1.2
体积密度，Density, g/cm^3	≤1.2	≤1.0	≤0.8	≤0.6	≤0.5
常温耐压强度, kgf/cm^2 Cold Crushing Strength	≥45	≥30	≥20	≥12	≥7
0.5%永久线收缩的试验温度 Test temp. , (Permanent Linear Change 0.5%), ℃	1470	1450	1400	1260	1250
导热系数，Thermal conductivity, W/m.k (average temp. 350±25 ℃)	≤0.42	≤0.35	≤0.23	≤0.22	≤0.18
荷重软化温度 T0.6 ， ℃ Refractoriness Under Load ,at 0.196 MPa	≥1500	≥1450	≥1300	≥1200	≥1180
耐火度， ℃ Refractoriness	≥1790	≥1790	≥1790	≥1730	≥1710

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熔融石英水口及制品

Fused silicon nozzle

牌号 Brand	QRS-99	
	标准值 Specification Data	代表值 Typical Data
化学成分 Chemical Analysis		
SiO2 %	≥99	99.56
显气孔率， % Apparent Porosity	≤18	15
体积密度， g/cm3 Bulk Density	≥1.84	1.88
常温耐压强度 Mpa Cold Crushing Strength	≥40	53.8

铝碳水口及塞棒

Al2O3-C Nozzle & MONOBLOCK STOPPER

牌号 Brand	长水口 Long Nozzle CLT-A		浸入式水口 Submerged Nozzle QLT-B		整体塞棒 Monolithic Stopper Rod ZSLT-B	
	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data
化学成分 Chemical Analysis						
Al2O3 %	≥46		≥46		≥60	
F. C %	≥29		≥28		≥28	
显气孔率， % Apparent Porosity	≤14		≤14		≤13	
体积密度， g/cm3 Bulk Density	≥2.35		≥2.38		≥2.60	
常温耐压强度 Mpa Cold Crushing Strength	≥22		≥22		≥25	
常温抗折强度 Mpa Cold Modulus of Rupture	≥7		≥7		≥8	
热震稳定性 次 Thermal Shock Resistance	≥10		≥10		≥10	

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滑　　板
Sliding Plate

牌号 Brand	高铝滑板 High Alumina Sliding Plate HASP-55		铝碳滑板 Alumina Carbon Sliding Plate ACSP-75		铝碳锆滑板 Alumina-Graphite-Zirconium Sliding Plate AGZSP-70	
	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data
化学成分 Chemical Analysis Al_2O_3 % F. C % ZrO_2 %	≥55	58	≥75 ≥7	78 10	≥70 ≥6 ≥7	75 7 8
显气孔率, % Apparent Porosity	≤14	11	≤15	11	≤10	4
体积密度, g/cm^3 Bulk Density	≥2.35	2.53	≥2.80	2.89	≥3.0	3.15
常温耐压强度 Mpa Cold Crushing Strength	≥70	98	≥70	99	≥110	145
常温抗折强度 Mpa Cold Modulus of Rupture	≥7	10	≥10	16	≥8	10

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上水口，下水口和座砖

Upper Nozzle, Lower Nozzle and Well Block

牌号 Brand	铝碳上水口 Alumina Carbon Upper Nozzle ACUN-85		铝碳下水口 Alumina Carbon Lower Nozzle ACLN-70		镁碳座砖 Magnesite Carbon Well Block MCWB-	
	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data	标准值 Spec. Data	代表值 Typical Data
化学成分 Chemical Analysis						
Al_2O_3 %	≥85	90	≥70	80	--	
F. C %	≥3	5	≥3	4.8	≥10	11
MgO %	--		--		≥80	82
显气孔率，% Apparent Porosity	≤10	4	≤10	5	≤5	3
体积密度，g/cm^3 Bulk Density	≥3.0	3.15	≥2.65	3.0	≥2.90	3.0
常温耐压强度 Mpa Cold Crushing Strength	≥78	130	≥88	150	≥40	45
0.196Mpa 荷重软化温度 T_2, ℃ Refractoriness Under Load,	≥1700	1700	≥1700	1700		
常温抗折强度 Mpa Cold Modulus of Rupture	---				≥6	7

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熔铸锆刚玉砖

Fused cast Al_2O_3-ZrO_2-SiO_2 bricks

牌号 Brand / Item	AZS-33		AZS-36		AZS-41	
	Y	H	Y	H	Y	H
化学成分 Chemical analysis:						
Al_2O_3 %						
ZrO_2 %	≥32.0	≥32.0	≥35.0	≥35.0	≥40	≥40
SiO_2 %	≤16.0	≤17.0	≤13.5	≤14.5	≤13.0	≤14.0
Na_2O %	≤1.5	≤1.5	≤1.4	≤1.4	≤1.3	≤1.3
$Fe_2O_3+TiO_2+CaO+MgO+$ $Na_2O+K_2O+B_2O_3$ %	≤2.5	≤3.0	≤2.5	≤3.0	≤2.5	≤3.0
体密 Bulk Density g/cm^3						
PT, QX	≥3.40	≥3.30	≥3.45	≥3.45	≥3.55	≥3.50
MS	≥3.50	≥3.45	≥3.60	≥3.55	≥3.70	≥3.65
WS	≥3.60	≥3.55	≥3.70	≥3.65	≥3.80	≥3.75

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不定型耐火材料

Unshaped Refractory

粘土结合耐火浇注料

Fireclay-Bond Castable Refractories

牌号 Brand	NL-70		NL-60		NL-45	
	标准值 Spec.Data	代表值 Typical Data	标准值 Spec.Data	代表值 Typical Data	标准值 Spec.Data	代表值 Typical Data
化学成分 Chemical Analysis Al2O3 %	≥70		≥60		≥45	
耐火度, ℃ Refractoriness	≥1760		≥1720		≥1700	
烧后线变化率不大于±1%的试验温度（保温 3h） ℃ (Test Temp. *3h) Lining Change ≤±1%, ℃	1450		1400		1350	
110℃烘干后常温耐压强度 Mpa Cold Crushing Strength, After110℃	≥10		≥9		≥8	
110℃烘干后常温抗折强度 Mpa Cold Modulus of RuptureAfter110℃	≥2		≥1.5		≥1	
最高使用温度 ℃ Max. Service Temp.	1450		1400		1350	

水泥结合耐火浇注料

Cement-Bonded Castable Refractories

牌号 Brand	GL-85	GL-70	GL-60	GN-50	GN-42
	标准值 Spec.Data	标准值 Spec.Data	标准值 Spec.Data	标准值 Spec.Data	标准值 Spec.Data
化学成分 Chemical Analysis Al2O3 %	≥85	≥70	≥60	≥50	≥42
耐火度, ℃ Refractoriness	≥1780	≥1720	≥1700	≥1660	≥1640
烧后线变化率不大于±1%的试验温度（保温 3h） ℃ (Test Temp. *3h) Lining Change ≤±1%, ℃	1500	1450	1400	1400	1350
110℃烘干后常温耐压强度 Mpa Cold Crushing Strength, After110℃	≥35	≥35	≥30	≥30	≥25
110℃烘干后常温抗折强度 Mpa Cold Modulus of Rupture, After110℃	≥5	≥5	≥4	≥4	≥3.5
最高使用温度 ℃ Max. Service Temp.	1600	1450	1400	1350	1300

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低水泥结合耐火浇注料

Lower Cement Bond Castable Refractories

牌号 Brand	DL-80		DL-60	
	标准值 Spec.Data	代表值 Typical Data	标准值 Spec.Data	代表值 Typical Data
化学成分 Chemical Analysis				
Al2O3 %	≥80		≥60	
CaO %	≤2.5		≤2.5	
耐火度, ℃ Refractoriness	≥1780		≥1740	
烧后线变化率不大于±1%的试验温度（保温 3h） ℃ (Test temp. *3h) Lining Change ≤±1%, ℃	1500		1500	
110℃烘干后常温耐压强度 Mpa Cold Crushing Strength, After110℃	≥40		≥30	
110℃烘干后常温抗折强度 Mpa Cold Modulus of Rupture,After110℃	≥6		≥5	
最高使用温度 ℃ Max. Service Temp.	1500		1450	

磷酸盐结合耐火浇注料

Phosphate-Bonded Castable Refractories

牌号 Brand	LL-75		LL-60		LL-45	
	标准值 Spec.Data	代表值 Typical Data	标准值 Spec.Data	代表值 Typical Data	标准值 Spec.Data	代表值 Typical Data
化学成分 Chemical Analysis						
Al2O3 %	≥75		≥60		≥45	
耐火度, ℃ Refractoriness	≥1780		≥1740		≥1700	
烧后线变化率不大于±1%的试验温度(保温 3h) ℃ (Test Temp. *3h) Lining Change ≤±1%, ℃	1500		1450		1350	
110℃烘干后常温耐压强度 Mpa Cold Crushing Strength, After110℃	≥30		≥25		≥20	
110℃烘干后常温抗折强度 Mpa Cold Modulus of Rupture,After110℃	≥5		≥4		≥3.5	
最高使用温度 ℃ Max. Service Temp.	1600		1500		1400	

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高强度耐火浇注料

Supper Strength Castable Refractories

牌号 Brand	SSCR-93		SSCR-90	
	标准值 Spec.Data	代表值 Typical Data	标准值 Spec.Data	代表值 Typical Data
化学成分 Chemical Analysis				
Al2O3 %	≥93		≥90	
SiO2 %	≤0.5		≤1.0	
CaO %	≤4.0		≤4.0	
耐火度, ℃ Refractoriness	≥1800		≥1800	
烧后线变化率 % Lining Change				
1100℃x3h	±0.5		±0.5	
1500℃x3h	±0.5		±0.5	
常温耐压强度 Mpa Cold Crushing Strength,				
110℃烘干后 After110℃	≥80		≥60	
1100℃烧后 After1100℃	≥100		≥70	
1500℃烧后 After1500℃	≥120		≥100	
常温抗折强度 Mpa Cold Modulus of Rupture				
110℃烘干后 After110℃	≥8		≥6	
1100℃烧后 After1100℃	≥9		≥7	
1500℃烧后 After1500℃	≥10		≥9	
110℃体积密度 g/cm3 Bulk Density	≥2.9		≥2.8	
最高使用温度 ℃ Max. Service Temp.	1700		1650	

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SHANGHAI KELEI MATERIAL CO., LTD

A 型矽酸鈣隔熱材料

Non-asbestos calcium silicate thermal insulation materials

1. 強度高：在容重相近時，它是無機硬質絕熱材料中最高的保溫材料。
2. 耐熱性：在使用溫度範圍內不變形。
3. 保溫隔熱性：導熱係數比其它硬質塊狀絕熱材料低。
4. 本公司產品為無石棉製品。
5. 適用於鋼鐵、石化、陶瓷、玻璃、水泥等各種爐窑的保溫，及電力、機械、電子、造船等行業的保溫隔熱。

1. High strength: the strongest one among the inorganic thermal insulation materials with the similar density.
2. Thermal-resistance: non-deformation at the temperature used.
3. Thermal insulation: lower thermal conductivity than other hard mass thermal insulation materials.
4. Asbestos-free.
5. products are recommended as thermal insulation in stove, cave dwelling of steel mill, petrochemical, ceramics, glass, cement industries and power industries as well as other various ancillary heating equipment.

產品主要技術性能

Technical characteristics

	單位 Unit	本公司標準 Our company				美國標準 ASTM-C533	日本標準 JISA9510-1995		英國標準 BS3958-82
		A-13	A-17	A-22	A-28		I-13	II-22	
密度 Density	Kg/m^3	≤135	≤170	≤220	≤240	≤240	≤135	≤220	210~280
導熱係數 Thermal Conductivity	W/m・k	≤0.042	≤0.047	≤0.053	≤0.073	≤0.095 (204℃)	≤0.042	≤0.053	0.074 (200℃)
抗壓強度 Compressive Strength	MPa (Kgf/cm^2)	≥0.30 (4.1)	≥0.40 (4.1)	≥0.50 (5.1)	≥0.50 (5.1)	≥0.414			≥0.35
抗折強度 Bending Strength	MPa (Kgf/cm^2)	≥0.20 (2.0)	≥0.30 (3.0)	≥0.35 (3.5)	≥0.35 (3.5)	≥0.31	≥0.2	≥0.31	≥0.25 (3.1)
線收縮率 Linear Shrinkage	%	≤2.0	≤2.0	≤2.0	≤2.0	≤2.5	≤2.0	≤2.0	≤2.0
最高使用溫度 Max. Service Temp.	K (℃)	(1000)	(1000)	(1000)	(1000)	982	1000	1000	950
含水率 Moisture Content	%	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0			≤7.5

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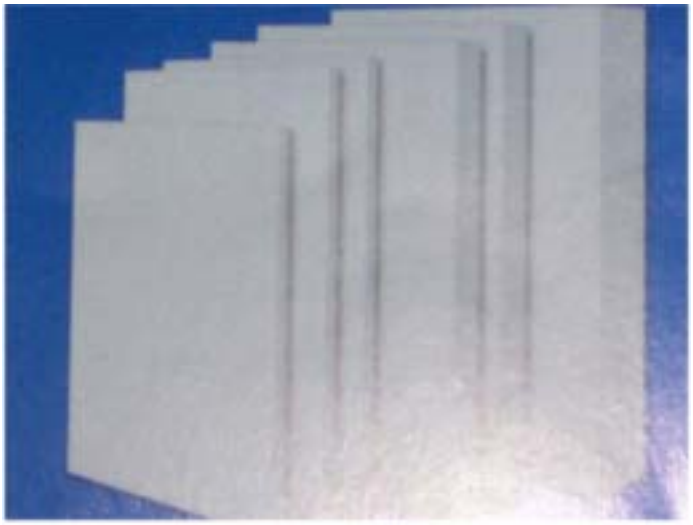
上海科磊物资有限公司
SHANGHAI KELEI MATERIAL CO., LTD

矽酸鈣钢结构防火覆盖板

Calcium silicate board for structure steel fire protection



1. 超輕：容重在 200-450kg/m^3。
2. 耐高溫：耐溫度比水泥加壓板、石膏板登高 400-600℃。
3. 隔熱性好：導熱係數僅為水泥加壓板的 1/3。
4. 尺寸穩定：吸水後尺寸變化小。
5. 使用壽命長：不蛀、不霉。
6. 安全性好：無毒、無味、加工粉塵無害。
7. 易加工：可鋸、鉆、刨、釘，表面可噴塗、塗刷。
8. 尺寸：1000 (長)x 500 (寬) x 20-40 (厚)
9. 特殊尺寸可根據用戶要求加工。

1. Super light density: 200-450kg/m^3.
2. High temperature resistance，400-600℃ higher than pressing cement board and gypsum board.
3. Thermal insulation: 1/3 of pressing cement board for its thermal conductivity.
4. Stable in size: smaller changing rate of shape when wetting
5. Excellent durability: not support the growth of mould or fugi, not attacked by pests.
6. Safety: no evaporation under the working temperature, toric-free, harmless.
7. Easy to process: cut by saw, dig by sciew, fixed by nail and decorated as painting etc.
8. Size：1000 (L)x 500 (W) x 20-40 (Thk)
9. We can provide with special products for customers' needs.

產品主要技術性能
Technical characteristics

	單位 Unit	A-25	A-35	A-45
最高使用溫度 Max. Service Temp.	K (℃)	(1000)	(1000)	(1000)
密度 Density	Kg/m^3	≤250	≤350	≤450
導熱係數 Thermal Conductivity	W/m・k	≤0.061	≤0.076	≤0.088
抗折強度 Flexural Strength (max.)	MPa	≥0.7	≥1.0	≥2.5
線收縮率 Linear Shrinkage (1000℃x16h)	%	≤2.0	≤2.0	≤2.0
含水率 Moisture Content	%	≤6.0	≤6.0	≤6.0

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上海科磊物资有限公司
SHANGHAI KELEI MATERIAL CO., LTD

B 型矽酸鈣隔熱材料

Non-asbestos calcium silicate thermal insulation materials

1. 強度高：在容重相近時，它是無機硬質絕熱材料中最高的保溫材料。
2. 耐熱性：在使用溫度範圍内不變形。
3. 保溫隔熱性：導熱係數比其它硬質塊狀絕熱材料低。
4. 本公司產品為無石棉製品。
5. 適用於電力、石化、冶金等工業部門熱力設備和管道保溫，還可作爲各種爐子耐火磚背襯材料。

1. High strength: the strongest one among the inorganic thermal insulation materials with the similar density.
2. Thermal-resistance: non-deformation at the temperature used.
3. Thermal insulation: lower thermal conductivity than other hard mass thermal insulation materials.
4. Asbestos-free.
5. Products are recommended as thermal insulation of piping and equipment in power station, steel mill and petrochemical industries as well as other various fields. It can also be specified to use in furnace as backing material of refractory bricks.

產品主要技術性能
Technical characteristics

	單位 Unit	本公司標準 Our company **B-22**	國家標準 GB11835-89	美國標準 ASTM-C533	日本標準 JISA9510-1995	英國標準 BS3958-82
密度 Density	Kg/m^3	≤220	≤220	≤240	≤220	210~280
導熱係數 Thermal Conductivity	W/m・k	≤0.060	≤0.062	≤0.065	≤0.062	≤0.061 (100℃)
抗壓強度 Compressive Strength	MPa (Kgf/cm^2)	≥0.50 (5.1)	≥0.5	≥0.414		≥0.35
抗折強度 Bending Strength	MPa (Kgf/cm^2)	≥0.30 (3.1)	≥0.3	≥0.31	≥0.2	≥0.25
線收縮率 Linear Shrinkage	%	≤2.0	≤2.0	≤2.5	≤2.0	≤2.0
最高使用溫度 Max. Service Temp.	K (℃)	(650)	650	649	650	650
含水率 Moisture Content	%	≤7.5	≤7.5	≤7.5		≤7.5

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矽酸鈣產品種類和規格
Variety and specification

品 種 Class	項 目 Item	外形尺寸 Size
平 板 Slab	長 x 寬 Length * Width	610 x 305 mm 600 x 305 mm 610 x 150 mm 915 x 305 mm 1000 x 500 mm
	厚度 Thickness	25~75 mm
管 套 Pipe	內徑 Inside Diameter	Φ16~Φ3560 mm
	厚度 Thickness	25~75 mm
	長 Length	610 mm 600 mm 915 mm

注：1. 除上述規格外，也可以按用戶需要加工。
We also can supply the products with customers' wishes and needs.
2. 異形產品按用戶所提供的圖紙加工。
Abnormal shape can be manufactured with customers' design.

外形尺寸標準
Quality standard for different shaped products

項 目 Item 品 種 Class	尺寸允許偏差 (mm) Allowable dimension variation				外觀缺陷 (處) Surface cracks (place)	
	長 Length	寬 Width	內徑 Inside Diameter	厚度 Thickness	缺棱 Broken edges	缺角 Broken coners
平 板 Slab	+3 -2	+3 -3		+3 -2	1	1
管 套 Pipe	+3 -2		+3 0	0 -2	1	1

包裝
Packing

一般採用 630 x 580 x 320mm 紙箱包裝，內加塑料袋防潮。一個 40 尺集裝箱可以裝 504 箱。一個 40 尺高箱可以裝 576 箱

In plastic bags, then in Carton (Size: 630x 580x 320mm)。504 Cartons can be shipped in one 40 feet container. 576 Cartons can be shipped in one 40 feet high container.

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上海科磊物资有限公司
SHANGHAI KELEI MATERIAL CO., LTD

高强矽酸鈣耐火板

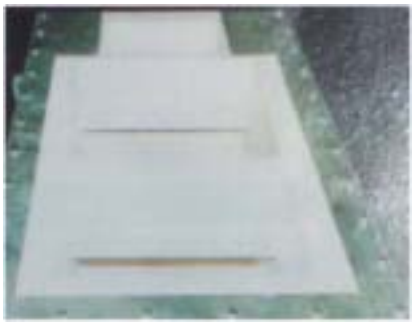
High Strength Calcium Silicate Fireproof Board

產品主要技術性能
Technical characteristics

	單位 Unit	C-90
最高使用溫度 Max. Service Temp.	K (℃)	800-1000
密度 Density	Kg/m^3	600-1400
抗折強度 Flexural Strength	MPa	6.0-18.0
抗壓強度 Compressive Strength	MPa	9.0-20.0
螺絲握持強度 Screw holding strength at thread depth (at 22mm)	Kg	90-110
導熱係數(平均溫度 500℃) Thermal Conductivity (average temp.500℃)	W/m · k	0.18-0.45
線收縮率 Linear Shrinkage (1000℃x16h)	%	0.1-1.5
熱損耗 Thermal losses	%	3.0-8.0
熱膨脹係數 Thermal expansivity	10^{-6}/℃	5.0-15

1. 不含石棉。
2. 低導熱係數：減少高溫工作的熱量損失。
3. 強度高： 比其他無幾絕熱板強度大。
4. 抗熱衝擊：能承受高溫及冷熱循環工作。
5. 優良的加工性。
6. 可以按 用戶需要的尺寸加工。
7. 用途：可用作有色金屬冶煉高溫擋板、隔牆、溜槽內襯、以及玻璃制鏡面模板等絕熱部件。

1. Asbestos- free.
2. Low thermal conductivity: to reduce the loss of energy working at high temperature.
3. High strength: stronger than other inorganic thermal insulation board.
4. High thermal shock resistance working under the thermal cycling
5. Easy to process
6. We can provide with the products for customer’s needs.
7. Application: widely used as model boards for glass, high temperature blockers, linings, partitions.



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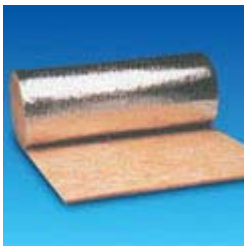
ROCKWOOL ROLL BLANKET (RB-01 RB-02 RB-03 RB-04)

RB-01

RB-02



RB-03

RB-04

Product Description

These products are high quality, resin-bonded boards with various compression values.

Application

Plain roll blanket RB-01: normal type among blankets, which is suitable for big diameter pipelines, flat and irregular surface, building wall with good thermal insulation and acoustic absorption effects.

Glass Cloth roll blanket RB-02: are designed for larger span equipment and building wall with good dust-proof performance.

Aluminum Foil roll blanket RB-03: is especially ideal for circular ducts, small equipment and air-conditioning system pipelines.It provides better water-resistance, dust-proof, thermal insulation and reduce risk of condensation occurring on the ductworks.

Wire mesh roll blanket RB-04: used in conditions where strong vibration and high temperature. They are also recommended for thermal insulation of boilers, vessels, flanges/valves and big diameter / large irregular pipelines.

Note: wire mesh on both sides is available

Density and Dimensions (colored area are available)

	Plain roll blanket RB-01				Glass Cloth roll blanket RB-02			Aluminum Foil roll blanket RB-03			Wire mesh roll blanket RB-04		
Thickness	Length (m)												
(mm)	40kg/m^3	50kg/m^3	60kg/m^3	80kg/m^3	60kg/m^3	80kg/m^3	100kg/m^3	60kg/m^3	80kg/m^3	100kg/m^3	80kg/m^3	100kg/m^3	130kg/m^3
25				10		10	10		10	10	10	10	10
30				8		8	8		8	8	8	8	8
40		6	6	6	6	6	6	6	6	6	6	6	6
50	5	5	5	5	5	5	5	5	5	5	5	5	5
60	4	4	4	4	4	4	4	4	4	4	4	4	4
75	3	3	3	3	3	3	3	3	3	3	3	3	3
80	3	3	3	3	3	3	3	3	3	3	3	3	3
100	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5

Width: 600mm

Other/special size, density and thickness on request

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Performance Properties

Thermal Conductivity (typical figure)

Mean Temp ℃	K-value W/mk								
	Plain roll blanket RB-01				Glass Cloth RB-02/ Wire mesh RB-04				RB-03
	40kg/m^3	50kg/m^3	60kg/m^3	80kg/m^3	60kg/m^3	80kg/m^3	100kg/m^3	130kg/m^3	80kg/m^3
50	0.043	0.041	0.039	0.038	0.039	0.038	0.037	0.037	0.039
100	0.054	0.049	0.046	0.044	0.046	0.044	0.043	0.043	0.047
150	0.068	0.061	0.058	0.053	0.058	0.053	0.051	0.050	0.058
200	0.086	0.074	0.071	0.064	0.071	0.064	0.060	0.058	0.070
250	0.106	0.090	0.088	0.076	0.088	0.076	0.071	0.067	0.085
300	0.131	0.109	0.106	0.091	0.106	0.091	0.084	0.080	
350		0.131	0.127	0.107	0.127	0.107	0.099	0.094	
400				0.126		0.126	0.116	0.109	

Maximum Service Temperature

Plain roll blanket RB-01	Glass Cloth roll blanket RB-02	Aluminum Foil roll blanket RB-03	Wire mesh roll blanket RB-04
450 ℃	650 ℃	250 ℃	750 ℃

Sound absorption (Thickness 75mm)

HZ	RB-01	RB-02	RB-04
125	0.29	0.29	0.29
259	0.79	0.80	0.78
500	1.10	1.10	1.11
1000	1.07	1.05	1.10
2000	1.01	1.00	1.01
4000	0.99	0.98	0.98

Fire Resistance

These roll blanket are no-combustible when tested to ASTM E-136**.**

Moisture Resistance

These products are water-repellent, non-hygroscopic.

Chemical Properties/Biological Properties

Mineral wool is neutral (PH 7) or slightly alkaline and meet the requirement of standard ASTM C 795, JIS A 9504.

It will not normally support the growth of molds, fungi and bacteria.

Test Reports

Reports & certificates are available upon request.

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ROCKWOOL BOARD

Product Description

These products are high quality, resin-bonded boards with various compression values.

Application

Flexible, semi-rigid board BO-01： used in building walls/roofs, elevator wells, flat or slightly curved surfaces and other industrial equipment for thermal, fire and sound insulation. **Have facing with wire mesh, metal lath, Kraft paper and aluminum foil.**

Rigid board BO-02： have various applications at both low and high service temperature, with good load-bearing characteristics particularly suitable for larger vessels, tanks, ovens and ducts. **Have facing with wire mesh, metal lath, Kraft paper and aluminum foil.**

Compression resistance board BO-03： they are designed for bearing great high loads.

Density and Dimensions (colored area are available)

FLEX, SEMI-RIGID; RIGID; COMPRESSION RESISTANCE BOARD									
Thickness(mm)	40kg/m^3	50kg/m^3	60kg/m^3	80kg/m^3	100kg/m^3	120kg/m^3	140kg/m^3	150kg/m^3	200kg/m^3
25									
30									
35									
40									
50									
65									
70									
75									
80									
90									
100									
110									
120									
130									
140									
150									

Other/special size, density and thickness on request

Length mm	910	1000	1200	1210
Width mm	600	605	630	910

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Performance Properties

Thermal Conductivity (typical figure)

Mean Temp ℃	K-value W/mk								
	40kg/m^3	50kg/m^3	60kg/m^3	80kg/m^3	100kg/m^3	120kg/m^3	140kg/m^3	150kg/m^3	200kg/m^3
50	0.043	0.041	0.039	0.038	0.037	0.037	0.037	0.037	0.039
100	0.054	0.049	0.046	0.044	0.043	0.042	0.043	0.042	0.045
150	0.068	0.061	0.058	0.053	0.051	0.050	0.049	0.049	0.052
200	0.086	0.074	0.071	0.064	0.060	0.059	0.057	0.057	0.060
250	0.106	0.090	0.088	0.076	0.071	0.069	0.066	0.066	0.069
300	0.131	0.109	0.106	0.091	0.084	0.082	0.081	0.080	0.079
350		0.131	0.127	0.107	0.099	0.096	0.095	0.094	0.090
400				0.126	0.116	0.111	0.109	0.107	0.102

Maximum Service Temperature Board : 450 ℃(850°F)

Flexible, semi-rigid board BO-01	Rigid board BO-02	Compression resistance board BO-03
450 ℃	650 ℃	750 ℃

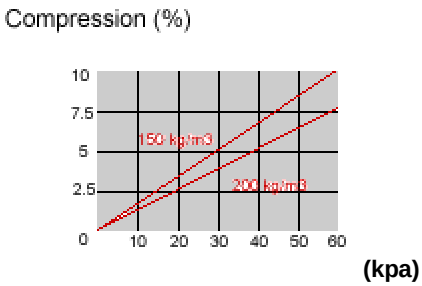
Sound absorption (Thickness 75mm)

HZ	BO-01	BO-02	BO-03
125	0.32	0.30	
259	0.80	0.80	0.21
500	1.13	1.15	0.53
1000	1.09	1.12	0.79
2000	1.01	1.03	0.91
4000	1.02	1.02	0.88

Fire Resistance

These boards are no-combustible when tested to ASTM E-136**.**

Compressive Strength



(kpa)

Moisture Resistance

These products are water-repellent, non-hygroscopic.

Chemical Properties/Biological Properties

Mineral wool is neutral (PH 7) or slightly alkaline and meet the requirement of standard ASTM C 795, JIS A 9504.

It will not normally support the growth of molds, fungi and bacteria.

Test Reports

Reports & certificates are available upon request.

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ROCKWOOL MARINE SLAB

Product Description

Marine slabs are resilient, strong and rigid. The structure of the materials and special characteristic provide the best

Optimum water-repellent control, good thermal and fire insulation performance.

Application

Marine slabs are used in ship-off shore, decks-bulkheads, coolers, air-conditioning related pipes, equipment and damp situation where requiring very high resistance to moisture and water.

Density and Dimensions (colored area are available)

FLEX, SEMI-RIGID; RIGID; COMPRESSION RESISTANCE BOARD					
Thickness (mm)	80kg/m^3	100kg/m^3	120kg/m^3	150kg/m^3	200kg/m^3
30					
40					
50					
60					
70					
80					

Length*width=1200mm*630mm

Other/special size, density and thickness on request

Performance Properties

Thermal Conductivity (typical figure)

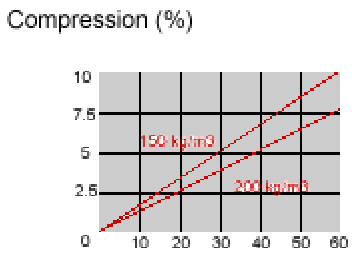
Mean Temp ℃	K-value W/mk								
	40kg/m^3	50kg/m^3	60kg/m^3	80kg/m^3	100kg/m^3	120kg/m^3	140kg/m^3	150kg/m^3	200kg/m^3
50	0.043	0.041	0.039	0.038	0.037	0.037	0.037	0.037	0.039
100	0.054	0.049	0.046	0.044	0.043	0.043	0.042	0.042	0.045
150	0.068	0.061	0.058	0.053	0.051	0.050	0.049	0.049	0.052
200	0.086	0.074	0.071	0.064	0.060	0.059	0.057	0.057	0.060
250	0.106	0.090	0.088	0.076	0.071	0.069	0.066	0.066	0.069
300	0.131	0.109	0.106	0.091	0.084	0.082	0.081	0.080	0.079
350		0.131	0.127	0.107	0.099	0.096	0.095	0.094	0.090
400				0.126	0.116	0.111	0.109	0.107	0.102

Maximum Service Temperature Marine slab: 650℃(1200°F)

Sound Absorption

HZ	Thickness 25 mm
250	0.21
500	0.53
1000	0.79
2000	0.91
4000	0.88

Compressive Strength



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上海科磊物资有限公司
SHANGHAI KELEI MATERIAL CO., LTD

ROCKWOOL PIPE SECTION

Product Description

The pipe section is produced from non-combustible mineral fibers. It performs strong and rigid. Each section is split at one side and hinged at the other side for easy installation.

Application

The pipe sections are suitable for application on process and piping works operating at maximum temperature 750℃, with outer diameter of the insulation up to 610mm. It can also be used in air-conditioning systems, flange and central-heating. The high water-repellent effect and external shock resistance make it ideal for application in condition where water can penetrate the insulation and great compression resistance is required.

Density and Dimensions (colored area are available)

Pipe Size	Thickness (mm)																	
(mm)	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
22																		
27																		
34																		
43																		
48																		
60																		
76																		
89																		
108																		
114																		
133																		
140																		
159																		
165																		
219																		
273																		
325																		
351																		
406																		
456																		
508																		
558																		
610																		

Density: 130 kg/m3, 150 kg/m3 Length of all sizes: 1000 mm

Other/special size, density and thickness on request

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Performance Properties

Thermal Conductivity (typical figure)

Mean Temp ℃	K-value W/mk
50	0.04
100	0.04
150	0.05
200	0.06
250	0.07
300	0.08
350	0.09
400	0.10

Sound Absorption

The pipe is extremely ideal for enhancing sound absorption of pipelines in particularly conditions where liquids, air, or solid particles are transported through the pipelines at high velocities.

Fire Resistance

Pipe Sections are no-combustible when tested to ASTM E-136**.**

Compressive Strength

10% compressive >20 Kpa

Moisture Resistance

The products has water-repellent performance, non-hygroscopic.

Chemical Properties/Biological Properties

Mineral wool is neutral (PH 7) or slightly alkaline and meet the requirement of standard ASTM C 795, JIS A 9504.
It will not normally support the growth of molds, fungi and bacteria.

Test Reports

Reports & certificates are available upon request.

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LOOSE WOOL

Product Description

Loose Wool is granulated wool produced from no-combustible fibers with less than 0.2 per cent organic substance content.

Application

LW-01: recommended spraying for structural steelwork, subway, tunnel, external wall, warehouse, ceiling as well as overhanging floors with good fir-resistance and thermal insulation.

LW-02: filling for ceiling, covering around pipe, duct and wall cavity.

LW-03: main material for producing sound absorption ceiling,

Performance Properties

Thermal Conductivity (typical figure)

Mean Temp ℃	K-value W/mk
50	0.040
100	0.047
150	0.056
200	0.068
250	0.081
300	0.094
350	0.110
400	0.129

Maximum Service Temperature Loose Wool: 750 ℃(1400°F)

Sound Absorption

Loose wool is highly efficient sound absorption material.

Fire Resistance

Loose wool is no-combustible when tested to ASTM E-136**.**

Moisture Resistance

These products are water-proof, non-hygroscopic.

Chemical Properties/Biological Properties

Mineral wool is neutral (PH 7) or slightly alkaline and meet the requirement of standard ASTM C 795, JIS A 9504.

It will not normally support the growth of molds, fungi and bacteria.

Test Reports

Reports & certificates are available upon request.

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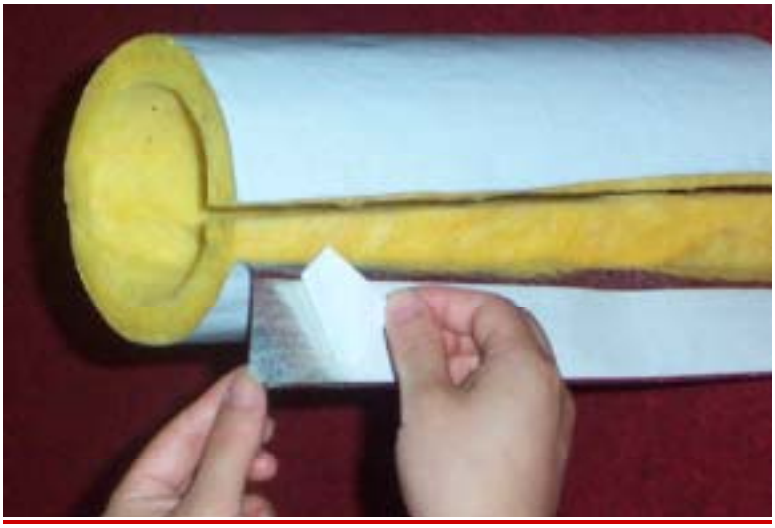
Centrifugal Fibreglass Wool Pipe



Product Description

The pipe section is produced from Centrifugal Fibreglass Wool. It performs strong and rigid. Each section is split at one side and hinged at the other side for easy installation.

Application

Centrifugal Fibreglass Wool pipe consist of lightweight cylindrical insulating sections。These sections are one-piece units with a slit along one wall length which opens for quick application and closes tight once in place。They provide excellent thermal insulation and are designed for use on pipes operating from -85℃ to 250℃。Centrifugal Fibreglass Wool pipe is available bare for hot piping, with a factory applied calico scrim jacket as a base for cement or paint finish, and with aluminum foil jackets for use on cold piping where a vapor barrier is required。

Dimensions of Pipe

Nominal diameter (mm)	15	20	25	32	40	50	65	80	100	125	150	200	250	300
Inner diameter (mm)	21	27	34	43	49	61	76	89	114	140	165	216	267	319
Thickness (mm)	25	25	25	25	25	25	25	25						
	30	30	30	30	30	30	30	30	30					
	40	40	40	40	40	40	40	40	40	40	40	40		
	50	50	50	50	50	50	50	50	50	50	50	50	50	50

Density: over 48 kg/m^3, Length of all sizes: 1000 mm

Other/special size, density and thickness on request.

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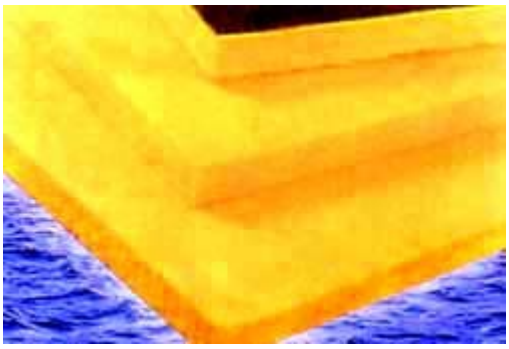
Centrifugal Fibreglass Wool Board



Product Description

These products are high quality, resin-bonded boards

Application

Glasswool Board Insulation are rigid or semi-rigid board products manufactured by long and fine glass fiber。Can be made to various density and thickness for different needs，also can be laminated with aluminum foil、glass tissue or other facing materials。Normally used for acoustical and thermal insulations。

Density and Dimensions

Density	24kg/m^3	32kg/m^3	40kg/m^3	48kg/m^3	64kg/m^3	80kg/m^3	96kg/m^3
Thickness (mm)	20	20	20	15	15	15	15
	25	25	25	20	20	20	20
	50	40	40	25	25	25	25
	75	50	50	50	30	30	
	100	75	60				
Length (mm)	1000-2000 (standard 1200)						
Width (mm)	600, 900, 1200, 1800						

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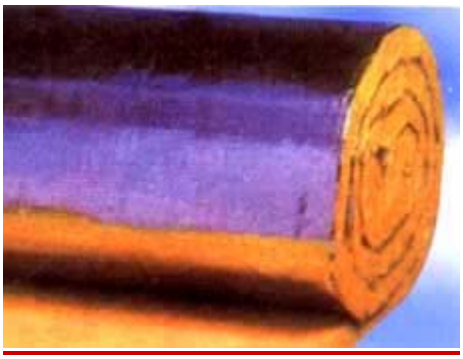
Centrifugal Fibreglass Wool BLANKET



Product Description

These products are high quality, resin-bonded boards with various compression values.

Application

Blanket glasswool insulation are lightweight，flexible and resilient，they provide excellent thermal insulation for flat or low-pitched roof、cavity insulation for dry wall partition、backing insulation for sprinkler panel of curtain wall、lining or wrapping insulation for air duct、thermal insulation for machinery and equipment…etc.。They can be laminated with aluminum foil、glass cloth、glass tissue or other facing materials to enhance their functions of vapor retardant、acoustics and fire-proofing。

Density and Dimensions

	Roll Blanket						Bar Blanket					
Density (kg/m^3)	10	12	16	20	24	32	10	12	16	20	24	32
Thickness (mm)	50	50	40	25	25	25	50	50	40	25	25	25
	75	75	50	40	40	40	75	75	50	40	40	30
	100	100	75	50	50	50	100	100	75	50	50	40
	150	150	100	75			150	150	100	75	75	50
				100						100	100	75
Length (mm)	5500 ~ 22000						1200					
Width (mm)	600, 900, 1200, 1800						600, 900					

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上海科磊物资有限公司
SHANGHAI KELEI MATERIAL CO., LTD

陶瓷纤维板隔熱材料

Ceramic Fiber Slab thermal insulation materials

產品主要技術性能
Technical characteristics

牌号 Brand:	GDS126	GDS140	GDS160
分类温度 Classify Temperature ℃	1260	1400	1600
颜色 Color	白/棕黄	白/棕黄	白
容重 Density Kg/m³	310	310	300-600
抗折强度 Tensile strength MPa	1.0	0.9	
耐压强度 Bending Strength MPa	0.3	0.3	
灼减 I.L.（800℃x2h） %	5.5	3.5	
永久线变化 Permanence Linear Shrinkage % （分类温度上保温 24 小时 ASTM-356）	3.0	3.7	2 (1500℃ x6hr)
导热系数（ASTM C-201） W/m・k			
300℃	0.07	0.07	
400℃	0.08	0.08	
600℃	0.11	0.11	
800℃	0.15	0.15	
1000℃	0.20	0.20	0.16
1250℃			0.22
1350℃			0.26

GDS126: 1200 x 1000 x 6,7.5,10,13,15,20,25,40,50 mm

GDS140: 1200 x 1000 x 25,40,50 mm

GDS160: 960 x 600 x 10,20,25,40,50 mm

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纤维背衬板隔熱材料

Ceramic Fiber Back Slab thermal insulation materials


特点：

憎水性，抗热震，易于机械加工，常温下和烧后均有良好的耐压强度，非脆性，纤维含量高，重量轻，热容小。

產品主要技術性能
Technical characteristics

牌号 Brand:	GDS-B800	S-B1000	S-B1100
分类温度 ℃ Classify Temperature	800	1000	1100
颜色 Color	白/棕黄	白/棕黄	白/棕黄
容重 Density Kg/m^3	320	320	320
抗折强度 Tensile strength Mpa	0.7	0.8	0.8
耐压强度 Bending Strength Mpa	0.3	0.4	0.3
灼减 I.L. (800℃x2h) %	6.0	6.0	5.0
永久线变化 Permanence Linear Shrinkage % (分类温度上保温 24 小时 ASTM-356)	1.2	1.2	0.8
导热系数 Thermal Conductivity			
200℃ (ASTM C-417) W/m · k	0.07	0.08	0.06
300℃	0.07	0.09	0.07
400℃	0.08	0.10	0.08
500℃	0.09	0.11	0.10
600℃	0.11	0.13	0.11

Size: 1000 x 600 x 25,30,40,50 mm

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上海科磊物资有限公司
SHANGHAI KELEI MATERIAL CO., LTD

陶瓷纤维毯隔熱材料

Ceramic Fiber Blanket thermal insulation materials

產品主要技術性能
Technical characteristics

	DBLG126		DB140	GDB140C
分类温度 Classify temperature ℃	1260		1425	1425
颜色 Color	White		White	Blue/ green
容重 Density Kg/m3	64	96	128	160
抗拉强度 Tensile strength KPa	39	78	103	127
Thermal Conductivity W/m · k				
200℃	0.07	0.06	0.06	--
400℃	0.12	0.11	0.10	0.09
600℃	0.20	0.16	0.15	0.13
800℃	0.30	0.23	0.20	0.18
1000℃	0.43	0.32	0.27	0.25
永久线变化 Permanence Linear Shrinkage %				
1000℃	1.5			1.5
1100℃	2.2			2.2
1200℃	3.0		1.0	2.7
1300℃	5.5		2.0	3.5
1400℃			3.0	4.0
1500℃				5.0
化学成分 Chemical analysis:				
Al_2O_3 %	50		35	42
Al_2O_3 +SiO_2 %	99		85	96
Cr_2O_3 %				2.8
ZrO_2 %			15	

THICK (mm)	64	96	128	160	64	96	128	160	96	128	Length (mm)	Width (mm)	M^2/Ctn
6											5500x4	610	13.42
10											18500		11.28
13											14640		8.93
19											9760		5.95
25											7320		4.46
38											4880		2.98
50											3680		2.23

and the Width 1220mm of blanket need stock up.(Order need over min. quantity)

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上海科磊物资有限公司
SHANGHAI KELEI MATERIAL CO., LTD

陶瓷耐火纤维纸

Ceramic Fiber Thermal Insulation Paper

分类温度：1260℃

特点

高强抗撕扯， 高柔韧性； 低渣球含量 ；精确的厚度； 双面光滑； 抗热冲击； 极低的导热率。

应用

阻隔热短路； 隔热密封垫； 膨胀缝 ；加工件在热处理时的温度控制； 家用热设施上的冲切片；车辆中的热阻材料（消音和排气装置；） 熔融金属处密封垫； 防火。

产品描述

陶瓷纤维纸是由耐火纤维加上少量的有机结合剂生产而成。
具有极好的隔热性能，可手持搬运，施工方便。
柔性很好，抗撕扯。赛拉纸特别适合于进行深加工处理。如：层压结构，冲切片，卷曲或折叠成型。
是一种化学上稳定的隔热材料，最高使用温度可达 1260℃。
首次加热时有机结合剂即可完全烧失，烧失温度大约在 300℃。

產品主要技術性能
Technical characteristics

	GDP126	GDP140
分类温度 ℃	1260	1400
熔点 ℃	1760	1760
容重 Kg/m^3	210	210
测厚压力 KPa	10	10
抗拉强度 Mpa	0.75	0.75
灼减/结合剂含量 %	8.0	8.0
加热收缩（分类温度上保温 4hr）%	3.5	3.5
导热系数 W/m · k		
200℃	0.06	0.06
300℃	0.07	0.07
400℃	0.09	0.09
500℃	0.11	0.11
600℃	0.13	0.13
800℃	0.20	0.20
化学成分		
Al_2O_3 %	47	48-54
SiO_2 %	52	46-52
其它氧化物 %	1	≤5

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上海科磊物资有限公司
SHANGHAI KELEI MATERIAL CO., LTD

陶瓷纤维贴面块
Ceramic Fiber Veneering Modules


產品主要技術性能
Technical characteristics

	GDV126	GDV140	GDV160		
分类温度 ℃ Classify Temperature	1260	1425	1600		
建议使用温度上限 ℃ Service Max. Temperature	1200	1350	1600		
容重 Density Kg/m^3	140-240	140-240	100-210		
导热系数 Thermal Conductivity W/m · k	140 Kg/m^3	170 Kg/m^3	190 Kg/m^3	210 Kg/m^3	240 Kg/m^3
400℃	0.13	0.13	0.12	0.12	0.11
600℃	0.18	0.18	0.17	0.16	0.15
800℃	0.25	0.26	0.24	0.23	0.21
1000℃	0.34	0.36	0.34	0.32	0.29
1200℃	0.48	0.52	0.48	0.44	0.40
化学成分 CHEMICAL ANALYSIS:					
Al2O3 %	50	35	73-95		
Al2O3 +SiO2 %	99	85	99.6		

产品规格：
Sizes: 200x100x30~80mm

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上海科磊物资有限公司
SHANGHAI KELEI MATERIAL CO., LTD

陶瓷纤维毯隔熱材料

Ceramic Fiber Blanket thermal insulation materials

產品主要技術性能
Technical characteristics

	GDB110	GDB126	GDB136	GDB140
分类温度 Classify temperature ℃	1100	1260	1360	1400
工作温度 Service temperature ℃	900	1100	1200	1350
颜色 Color	White	White	White	White
容重 Density Kg/m3	96	96	128	128
	128	128	160	160
抗拉强度 Tensile strength Mpa (容重 Density 128Kg/m3)	0.04	0.04	0.04	0.04
Thermal Conductivity W/m · k				
400℃	0.09	0.09	---	---
600℃	---	---	0.12	---
800℃	0.16	0.16	---	0.16
1000℃	---	0.20	0.20	0.20
永久线变化 Permanence Linear Shrinkage %				
1000℃	-4.0	---	---	---
1100℃	---	-3.0	---	---
1200℃	---	---	-3.0	---
1350℃	---	---	---	-3.0
化学成分 Chemical analysis:				
Al_2O_3 %	44	47-49	52-55	39-40
Al_2O_3 +SiO_2 %	96	99	99	---
Al_2O_3 +SiO_2 +ZrO_2 %	---	---	---	99
Fe_2O_3 %	1.2	0.2	0.2	0.2
Na_2O +K_2O %	0.5	0.2	0.2	0.2

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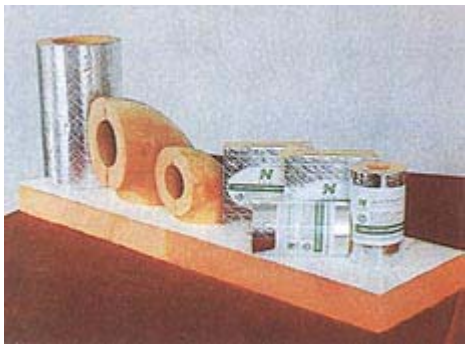
酚醛泡沫难燃绝热材料



产品特点

不燃绝热
产品在 1000℃火焰喷射下不燃烧、并且无烟、无有害气体散发、无高温分解滴落，达到德国工业标准 DIN4102 建筑材料不燃 A2 级的要求。经上海消防局封样送国家消防检测中心按 GB8626-88 测试，达难燃（B1）级。

无毒无味
不用氟利昂作发泡剂，故溢出的气体对人体及环境均无害，符合国家环保生产要求。

防水防湿
酚醛泡沫产品属闭孔型结构，具有良好的抗吸水、抗吸湿性、当泡沫体表面粘帖复合材料后或采用模塑时、抗水防湿能力会更好。

防腐抗老化
完全固化的该产品，有其优异的耐化学品和抗老化性能，特别能耐有机溶剂、耐强酸、弱酸、弱碱腐蚀，但不适用在强碱的环境中。

使用温度范围
使用温度范围广，（-196℃~+130℃）。瞬时耐热+200℃，在低温甚至超低温环境中使用，更优于其他有机保温材料。

机械强度
产品属硬质型泡沫，有较好的机械强度，不会因撞击震荡而导致变形，裂缝。

尺寸变化率
在热作用下尺寸稳定，变化率<2%。

密度范围
密度范围为 70~300kg/m3。

施工简便
产品施工简便、灵活，可根据施工要求现场剪裁，组合安装。其安装效果外表整齐美观而且耐久性好。

产品应用

酚醛泡沫管壳产品，长度为 1 米，型式为哈夫管（不含复合材料和含复合材料），并配有“ V ”或“ Z ”等企口，施工时只需用复合胶带卷贴，即可加强密封性能。管壳在低温或超低温下使用，采用低温发泡型胶粘剂，可保证良好的密封性；在常温下要求快速施工时，采用阻燃型快干粘接剂，以确保工程和进度。

酚醛泡沫板材产品，应用领域广泛。在用作储罐或通风管道时，可加工成要求的规格，用粘接剂或复合胶带粘

接，特别要求场合可加用安全钩钉，以保证其牢固。在建筑领域里，将泡沫板材作为芯材与金属、三合板等复合料粘合制成夹芯板，还可以直接粘接或置于墙体或屋面上等。

酚醛泡沫管件产品分模型和切割型两种。特殊的管件（法兰、阀门等）可按《酚醛泡沫技术手册》施工。

项目名称	单位	技术指标	备注
密度	kg/m³	70， 100， 120	
导热系数	w/m.k	0.033 70kg/m³ 0.033 120kg/m³	平均温度 15℃
燃烧性能		DIN4102 不燃 A2 级 GB8624（B1）级	国内尚无 A2 级标准
最大烟密度	%	2.3	
烟密度等级		1.9	
氧指数	%	>=50	
吸水率	%	<7.5	体积吸水率、切割品
抗压强度	KPa	>=150~200	压缩 5%
尺寸变化率	%	<2	在 70~130℃放置 48h
工作温度	℃	-196~+130	