
26
YEARS
26
YEARS
CELEBRATING 26 YEARS OF QUALITY COMMITMENT
SOUTHWAY
REFRACTORIES

WHO WE ARE

Southway Refractories is a trusted supplier of refractory materials and a specialist provider of turnkey installation services for high-temperature industrial applications.

We deliver engineered refractory solutions designed to withstand the most demanding thermal, chemical, and mechanical operating environments, supporting critical processes across a wide range of heavy industries.

Built on a foundation of technical expertise, operational excellence, and proven project execution capabilities, Southway Refractories offers a comprehensive range of services spanning material selection, manufacturing, procurement, installation, maintenance, and technical support.

Our integrated approach enables clients to maximize operational efficiency, extend asset life, improve plant reliability, and minimize downtime.

By combining quality products, skilled craftsmanship, and industry-leading technical knowledge, we provide sustainable refractory solutions that enhance performance, protect critical assets, and deliver long-term value throughout the lifecycle of industrial operations.

WHAT WE DO

- Refractory Sales and Supply
- Monolithic Manufacturing
- Turnkey Project Solutions
- Shutdown Services
- Emergency Repairs
- Engineering Support
- Technical Consulting
- Maintenance Solutions

PRODUCTS FOR THE CEMENT INDUSTRY

Magnesia-alumina spinel brick

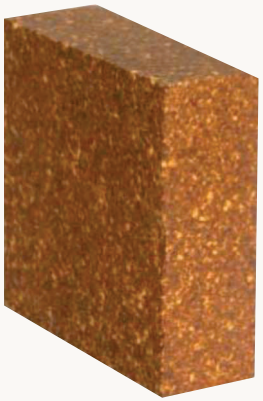
Grade	MgO	Al_2O_3	Fe_2O_3	CaO	SiO_2	ZrO_2	AP	BD	CCS	RUL($T_{0.6}$)	TSR(950℃ air)
	%	%	%	%	%	%	%	g/cm³	MPa	℃	cycle
SOLIMAG LA1	83.0	13.0	0.80	1.4	0.7	0.8	17.0	2.94	45	1700	100
SOLIMAG LA2	91.0	6.0	0.75	1.4	0.7	—	16.0	2.95	60	1700	100
SOLIMAG LB1	84.5	12.5	0.75	1.4	0.7	—	17.0	2.90	55	1700	100
SOLIMAG LB2	86.0	11.0	0.75	1.4	0.7	—	16.5	2.95	65	1700	100
SOLIMAG LB3	86.5	11.0	0.65	1.1	0.5	—	16.0	2.95	65	1700	100
SOLIMAG LC1	81.5	15.5	0.75	1.4	0.7	—	17.0	2.93	55	1700	100
SOLIMAG LC2	81.5	15.5	0.75	1.4	0.7	—	16.5	2.95	60	1700	100



The above analysis and properties are typical values based on production batch average and shoud not be used as the guaranteed specification. Southway Refractories may modify products from time to time or on request. The brick is made from high purity magnesia and high grade magnesia alumina spinel, the product exhibits excellent high temperature performance and chemical resistance. Higher spinel content improves brick thermal shock resistance. The products are suitable for the transition zones of cement rotary kiln.

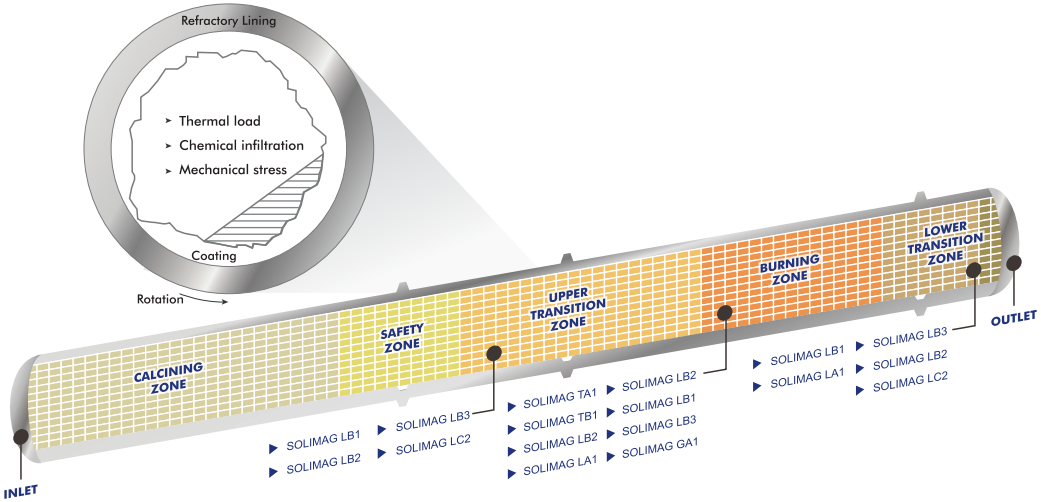
Magnesia-hercynite brick

Brand	MgO	Al_2O_3	Fe_2O_3	CaO	SiO	ZrO_2	AP	BD	CCS	RUL($T_{0.6}$)	TSR(950℃ air)
	%	%	%	%	%	%	%	g/cm³	MPa	℃	cycle
SOLIMAG TA1	82.2	12.5	2.6	1.4	1.1	—	17	2.95	70	1680	150
SOLIMAG TB1	88.0	4.5	5.0	1.25	1.0	—	16	2.98	56	1700	100



SOLIMAG TA1 uses high-iron magnesia and magnesia alumina spinel as the main raw materials. The brick has excellent coating ability which is suitable for use in the burning zone of cement kilns. Additional spinel improves thermal shock resistance of the product. SOLIMAG TB1 uses high-purity magnesia and fused Fe-Al spinel as the primary raw materials which contributes excellent coating ability. Comparing to SOLIMAG TA1, this product has better high-temperature performance and chemical erosion resistance.

CEMENT ROTARY KILN











SOUTHWAY REFRACTORIES

ISO 9001, ISO 14001, ISO 45001 Certified

Magnesia dolomite brick

Grade	MgO	CaO	ZrO_2	AP	BD	CCS	RUL($T_{0.6}$)	TSR(950℃ air)
	%	%	%	%	g/cm³	MPa	℃	cycle
SOLIMAG GA1	52.0	38.0	1.2	14.0	3.00	60	1700	80

This product series is based on high quality magnesia dolomite clincker, with an addition of zirconia,and burned under proper firing curves. It has excellent coating ability, resistance to chemical attack and recommended for burning zone of severe chemical infiltration condition.

Monolithic Products for Cement Plant

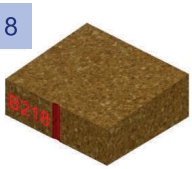
Products	Chemical Analysis							Physical Properties		
	Sio_2	Al_2O_3	Fe_2O_3	SiC	TiO	CaO+Mg	Na_2O+K_2	CCS	BD	SER TEMP
	%	%	%	%		%	%	Mpa	g/cm³	℃
Southcast 1500LCK+6%SiC	42	50	1.1	6	-	1.6	0.2	80	2.4	1500
Southcast 500AR	42	50	1.1	-	-	1.6	0.2	80	2.4	1500
Southcast extra H with SiC	16.8	77.6	1.1	-	2.0	1.6	0.2	80	2.76	1700
Southcem extra CB	16.8	77.6	1.1	-	2.0	1.9	0.6	95	2.76	1700
Southcem 500AR Gunning	45.7	47.8	0.5	-	1.44	1.2	0.12	60	2.2	1500
Southcem 400 Gunning	47.6	44	1.0	-	1.5	4.8	0.4	50	2.1	1400
Southcem 1600 KH	38	57	-	-	-	2.3	-	90	2.5	1600
Southlite 63LCC	31.5	51.5	0.8	15	-	2.3	0.2	75	2.65	1200
Cemlite 1300	33	43.2	2.16	-	1.28	18.7	1.2	6.5	1.2	1250
Cemlite 1000	41.1	25.3	8.4	-	1.3	19.5	4.4	2.0	900	1050
Solmor MA1	-	10	-	-	-	80	-	-	-	-

Other available products

- Thermal shock resistant Super Duty brick for the decomposition zone and tertiary air duct
- Alkali resistant High Alumina brick for the preheater zone
- High strength burst resistant castable for kiln outlet
- Self-flow castable for the burner
- Build-up resistant castable for various applications
- Gunning materials for various applications
- Pumpable materials for various applications

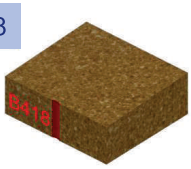
Standard Brick Shapes for Cement Kiln

B218



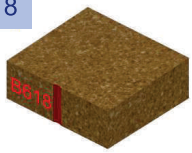
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B418



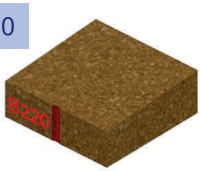
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B618



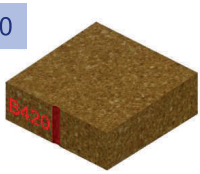
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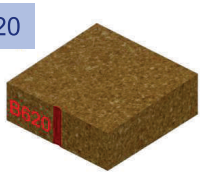
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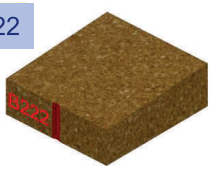
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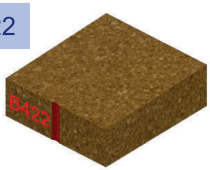
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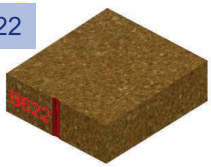
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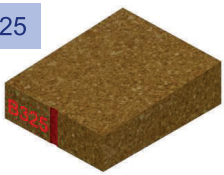
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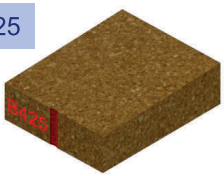
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B325



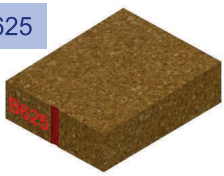
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B425



B425
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B625



B625
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