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MAGNESITE BRICKS



FIRED MAG BRICK

Long Keter supplying a comprehensive range of FIRED MAG BRICKS.
It is made with fused.

■ FIRED MAG BRICKS Product Data

Type	MZ-97A	MZ-97B	MZ-95A	MZ-95B	MZ-93	MZ-91
MgO [%]»	97	96.5	95	94.5	93	91
SiO2 [%]«	1.0	2.0	2.0	2.0	3.5	–
CaO [%]«	–	–	2.0	2.0	2.0	3.0
Apparent porosity [%]«	16	18	16	18	18	18
Cold Crushing Strength [MPa]»	60		60		60	60
Refractoriness Under Load 0.2MPa°C»	1700		1650		1620	1560
Reheat test, permanent linear change after heating at (1650°C, 2h)%	0~ -0.2		0~ -0.3		0~ -0.4	0~ -0.4

MAG CHROME BRICK

Long Keter supplying a comprehensive range of Magnesia Chrome Brick, Mag Chrome Brick is mainly used in metallurgical industry, such as for building open-hearth furnace top, electric furnace top, finery out of furnace and all kinds of non-ferrous metal metallurgy furnace. Fused cast magnesite chrome brick is adopted for high temperature position of furnace wall in electric furnace with ultra high power. Magnesia chrome brick that made of synthetic compost is adopted for strong erosion area in finery out of furnace. Fused cast magnesite chrome brick or magnesia chrome brick that made of synthetic compost is adopted for strong erosion area of nonferrous metals flash smelting furnace. Besides, Magnesia Chrome Brick also can be used for burning zone in rotary cement kiln and regenerative chamber in glass furnace.

- Key Features for Mag Chrome Brick
- High Refractoriness
 - High Temperature Strength
 - Strong Basic Slag Erosion Resistance
 - Good Thermal Shock Resistance
 - Certain Resistance to Acid Slag
 - Good Refractoriness
 - Good Corrosion Resistance e.g. Basic Steelmaking Slags, Sodium Hydroxide, Fe, Co, Ni
 - Low Electrical Conductivity
 - Transparency to Infrared

■ Magnesia Chrome Brick Product Data

Index	Magnesite-Chrome Brick		Directed Bonded Magnesite-Chrome Brick								Semi-Rebonded Magnesite-Chrome Brick					
			DMC-B				DMC-C									
	MGe-20	MGe-16	MGe-12	DMC12B	DMC9B	DMC6B	DMC4B	DMC20C	DMC18C	DMC16C	DMC12C	ZMC-35	ZMC-28	ZMC-20	ZMC-18	ZMC-15
MgO%	≥40	≥50	≥60	≥65	≥75	≥80	≥82	≥55	≥60	≥65	≥70	≥50	≥55	≥55	≥66	≥60
Cr2O3%	≥20	≥16	≥12	≥12	≥9	≥6	≥4	≥20	≥18	≥16	≥12	35-37	28-30	20-22	18-20	15-18
SiO2	–	–	–	≤2.0	≤1.8	≤1.5	≤1.5	≤2.5	≤2.4	≤2.4	≤2.0	–	–	–	–	–
Refractoriness Under Load 0.2MPa°C	≥1700	≥1650	≥1580	1680	1680	1650	1650	1700	1700	1700	1680	1700	1700	1700	1700	1700
Apparent porosity%	≤18	≤18	≤18	≤18	≤18	≤17	≤17	≤18	≤18	≤18	≤18	≤16	≤16	≤16	≤16	≤16
Cold Crushing Strength Mpa	≥40	≥40	≥40	≥40	≥40	≥40	≥40	≥40	≥40	≥40	≥40	≥45	≥45	≥45	≥40	≥40
Bulk density(Kg/m3)				3050	3050	3000	3000	3150	3100	3050	3000	3350	3250	3200	3100	3050
Thermal Shock Resistance (950°C Air cooling)	–	–	–	60	60	60	60	60	60	60	60	40	40	40	40	40



MAG CARBON BRICK

Long Keter supplying a comprehensive range of Magnesia Carbon Bricks, Magnesia Carbon Bricks have been used in the slag line of refining ladle, and good results have been achieved. Magnesia carbon bricks are also used for the lining part of AC arc furnace, DC electrical arc furnace, converter and other parts.

Key Features for Magnesia Carbon Bricks

- Good high-temperature performance.
- Strong slag resistance.
- Good thermal shock resistance.
- Low creep at high temperature.
- Good anti-stripping ability.
- Anti-stripping performance.
- Good wear resistance.
- Good thermal conductivity.



■ Magnesia Carbon Brick Product Data

Type	MT10A	MT10B	MT10C	MT14A	MT14B	MT14C	MT18A	MT18B	MT18C
MgO(%) ≥	80	78	76	76	74	74	72	70	70
C(%)≥	10	10	10	14	14	14	18	18	18
Apparent Porosity (%)≤	4	5	6	4	5	6	3	4	5
Bulk Density (kg/m³)≥	2900	2850	2800	2900	2820	2770	2900	2800	2770
Cold Crushing Strength (MPa)≥	40	35	30	40	35	25	40	35	25
Rupture strength (Mpa)≥	6	5	4	10	8	5	9	7	4



Long Keter supplying a comprehensive range of Magnesia Spinel Bricks are mainly used in non-ferrous smelting, transition zone before and after cement rotary kiln, high temperature zone of lime kiln, glass heat-accumulated type, top of reverberatory furnace, etc.

MAG SPINEL BRICKS

Key Features for Magnesia Spinel Bricks

- Good thermal shock stability
- High temperature mechanical strength
- High softening temperature under load
- Good slag resistance and alkali salt resistance

■ Magnesia Spinel Bricks Product Data

Type	Magnesite-Alumina Spinel Brick			Magnesite-Ferrum Spinel Brick	
	MA-5	MA-10	MA-15	MF-80	MF-75
MgO	≥85	≥80	≥80	≥84	≥80
Al ₂ O ₃	5-7	8-10	15-17	≤2.5	≤2.5
Fe ₂ O ₃	–	–	–	6.3	4.4
Cr ₂ O ₃	–	–	–	≥3.6	≥3.5
Apparent porosity%	≤18	≤18	≤17	≥17	≥17
Bulk Density (Kg/m³)	≥2900	≥2900	≥2900	≥2980	≥3050
Refractoriness Under Load 0.2Mpa°C	≥1620	≥1650	≥1650	1650	1570
Cold Crushing Strength Mpa	≥40	≥40	≥40	≥45	≥45
thermal Shock Resistance (1100°C water cooling, times)	≥6	≥8	≥10	≥4	≥4

HOLLOW WARE BRICKS

LONG KETER is supplying a comprehensive range of HOLLOWWARE BRICKS of dimensional accurate for use in the steel and steel foundry industries.

Hollowware bricks has high fire resistance, good crack resistance and strong corrosion resistance. It has regular appearance, smooth runner, precise size and complete variety. The products are manufactured according to the model and specification stipulated by the state, and can be processed separately according to the special requirements.



■ Product Data

Material	HOLLOWWARE	
Item	SK36	SK38
Pyrometric Cone Equivalent Orton Cone	35-36	37-38
Refractoriness (°C)	1785	1810
0.2 MPa Soft Under Load (%)	—	—
Bulk Density (kg/m³)	2250-2300	2350-2400
Apparent Porosity (%)	23.0-25.0	23.0-25.0
Cold Crushing Strength (MPa)	30-35	35-40
Reheat Test, Permanent Linear Change After Heating At 1400°C (%)	(+)0.5	(+)1.00
SiO ₂ (%)	38.2	20.2
Al ₂ O ₃ (%)	48-55	70-75
Fe ₂ O ₃ (%)	1.8	1.8
CaO (%)	0.4	0.4
Na ₂ O+K ₂ O+Li ₂ O (%)	0.5	0.5



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