



**THE WORLD'S LEADING
REFRACTORY
PRODUCTION BASE**

02

**TECHNICAL
EQUIPMENT**





Automatic hydraulic refractory press

Automatic hydraulic refractory press is the fairly elite mechanical equipment equipped with the integration of mechanics, electronics, and hydraulics. Controlled by PLC, It can automatically complete feeding, suppressing, demolding, clamping and injecting in the process of suppression, and can make adobes with high density, stable quality, precise dimensions by means of precise volumetric feeding, bi-directional pressurization and hydrostatic pressure.



Advanced Equipment

- Automatic controlling system & complete chemical & physical testing system
- 2100 tons automatic hydraulic press
- 2 lines ultra high temperature tunnel kiln tunnel kilns (1850 °C)
- 10 sets presses, including 100ot, 8001, 6301 and 4001 friction press, advanced crushing, blending



Burnt Brick Batching System



Control room



High Speed - Mixer



Brick Grinder



Friction Press



Ultra-High Temperature Tunnel Kiln & Automatic Control System



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03

LMM

SOLUTION



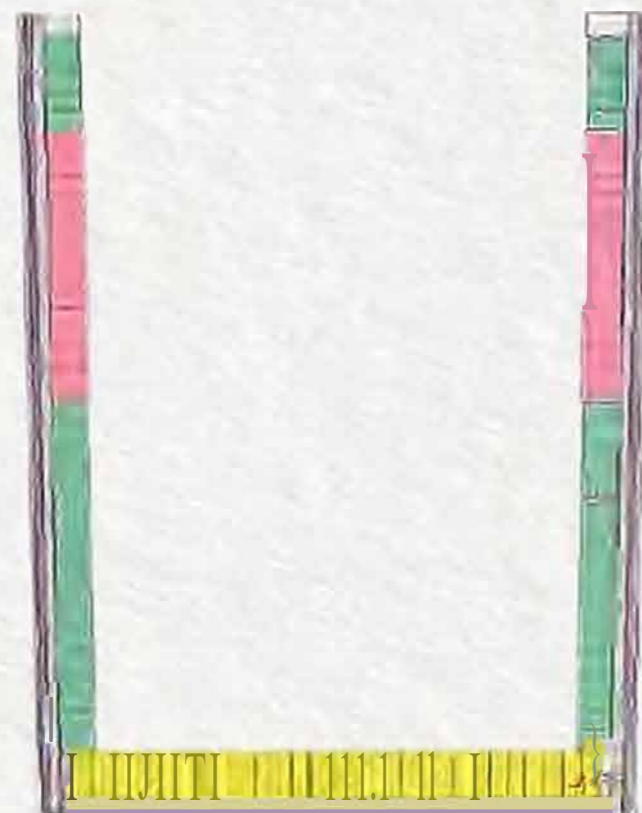


ILF ladle typical lining proposal

Refractory Type	Application	Quality Recommendation
Safety Lining Bricks	Safety Lining	MZ-91
Working Lining Bricks	Slag Zone	MG-30A MGT-SA
	Bath Zone	MG-20A MGT-SB
	Bottom	MG-20A MGT-5B
Monolithics	Bottom	DY-1
	Lip Ring	SK-1
	Installation Monolithics	N-1

r AOD typical lining proposal solution

Refractory Type	Application	Quality Recommendation
Safety Lining Bricks	Safety Lining	MZ-91
	Upper Cone	MG-20A MG-20B MG-40A
	Trunnions, Slag line	MG-20A MG-30A MG-40A
	Tuyere, Tuyere Area	MG-20A MG-30A
	Bottom	MG-20A
	Other Working Lining	MG-20A MG-20B



- Magnesite Dolomite Bricks (MG-30A, MGT-5A)
- Magnesite Dolomite Bricks (MG-20A, MGT-5B)
- Magnesite Dolomite Bricks (MG-20A, MGT-5B)



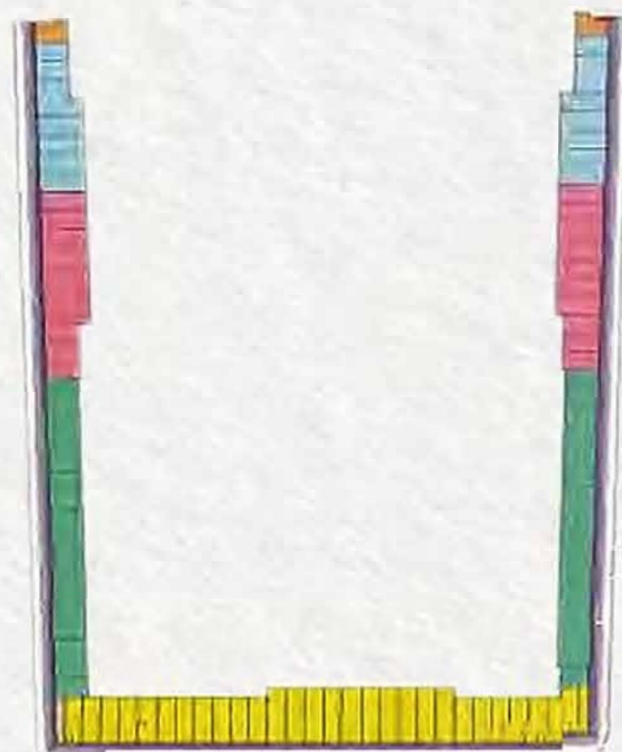
- Magnesite Dolomite Bricks (MG-20A, MG-20B)
- Magnesite Dolomite Bricks (MG-20A, MG-30A, MG-40A)
- Magnesite Dolomite Bricks (MG-20A, MG-30A, MG-40A)
- Magnesite Dolomite Bricks (MG-20A)

Ivoo typical lining proposal

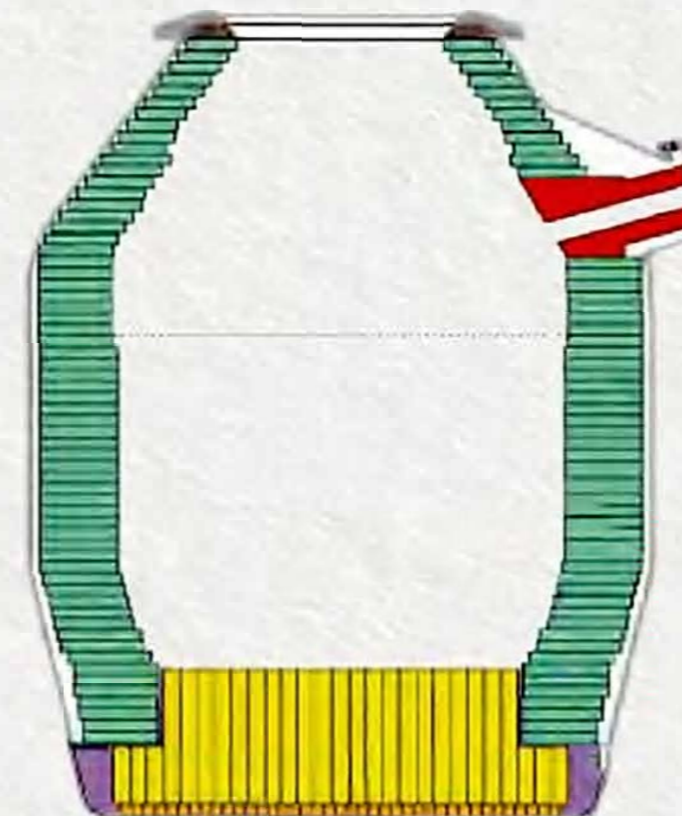
Refractory Type	Application	Quality Recommendation	
		Refractory Type	Quality Recommendation
Working Lining Bricks	Free board	MG-40A	---
	Slag line	MG-30A	MGT-SA
	Sidewall	MG-20A	MGT-SC
	Bottom	MG-20A	MGT-SC
Monolithics	Bottom	DY-1	---
	Lip Ring	SY-1	---
	Working Lining	TC-1	---
	Installation Monolithics	N-1	---

IGoR typical lining proposal solution

Refractory Type	Application	Quality Recommendation	
		Refractory Type	Quality Recommendation
Safety Lining Bricks	Safety Lining	MZ-91	---
	Tuyere, Tuyere Area	MGT-8A	---
	Other Area of Bottom	MGT-88	MGT-8C
	Barrel, Upper Cone	MG-20A	---
Monolithics	Slagline	MT-12A	---
	Bottom	DY-1	D-6
	Lining	TC-1	---
	Installation Monolithics	N-1	---



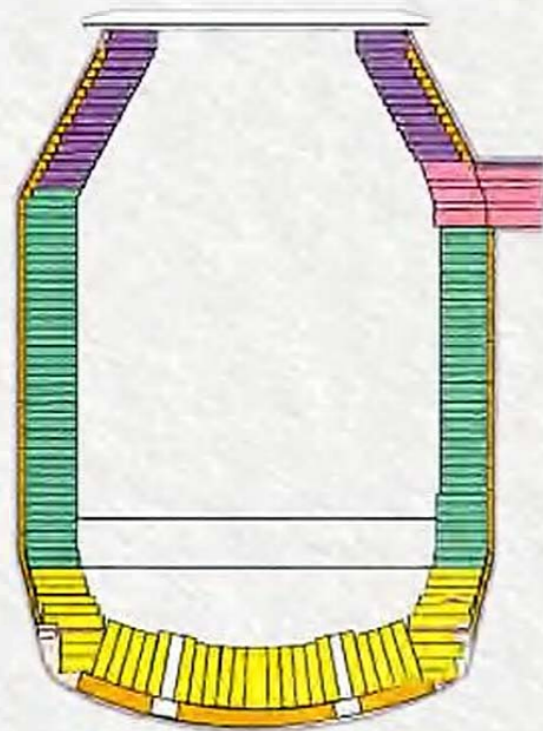
-  Magnesia Dolomite Bricks (MG-40A)
-  Magnesia Dolomite Bricks (MG-30A, MGT-SA)
-  Magnesia Dolomite Bricks (MG-20A, MGT-SC)
-  Magnesia Dolomite Bricks (MG-20A, MGT-SC)



-  Magnesia Dolomite Bricks (MGT-8B, MGT-8C)
-  Magnesia Dolomite Bricks (MG-20A)
-  Magnesia Carbon Bricks (MT-12A)
-  Ramming mix

150F typical lining proposal solution

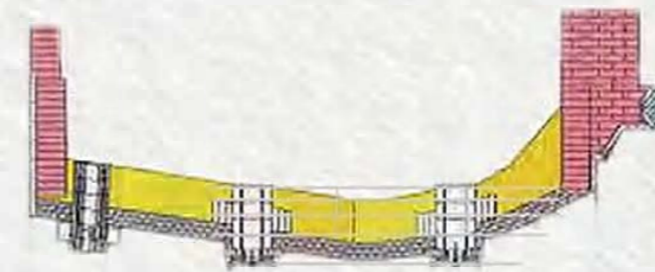
Refractory		Application	Quality Recommendation
Safety Lining Bricks		Safety Lining	MZ-91
Working Lining Bricks		Bottom	MT-14A, MT-16A
		Melting Bath	MT-14A
		Trunnions, Slagline	MT-14A, MT-16A
		Tapping Side	MT-14A
		Charging Side	MT-12A, MT-14A
		Upper Cone	MT-IOA
		Tap Hole	MT-12A
Monolithics		Bottom Lip Ring	D-6
		Installation Monolithics	N-1, MS-91



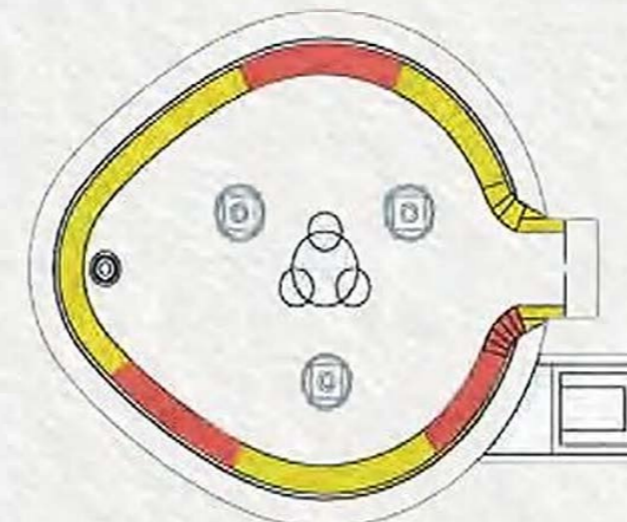
- Magnesia Carbon Bricks (MT-10A)
- Magnesia Carbon Bricks (MT-14A, MT-12A, MT-16A)
- Magnesia Carbon Bricks (MT-14A)
- Magnesia Carbon Bricks (MT-12A)

rEAF typical lining proposal solution

Refractory Type		Application	Quality Recommendation
Safety Lining Bricks		Safety Lining	MZ-91
Working Lining Bricks		Slagline, Hot Spot	MT-14A
		Upper, Lower Sidewall	MT-IOA
Monolithics		Bottom	D-1
		Furnace Door	KB-1
		Working Lining	8-3
		Installation Monolithics	N-1

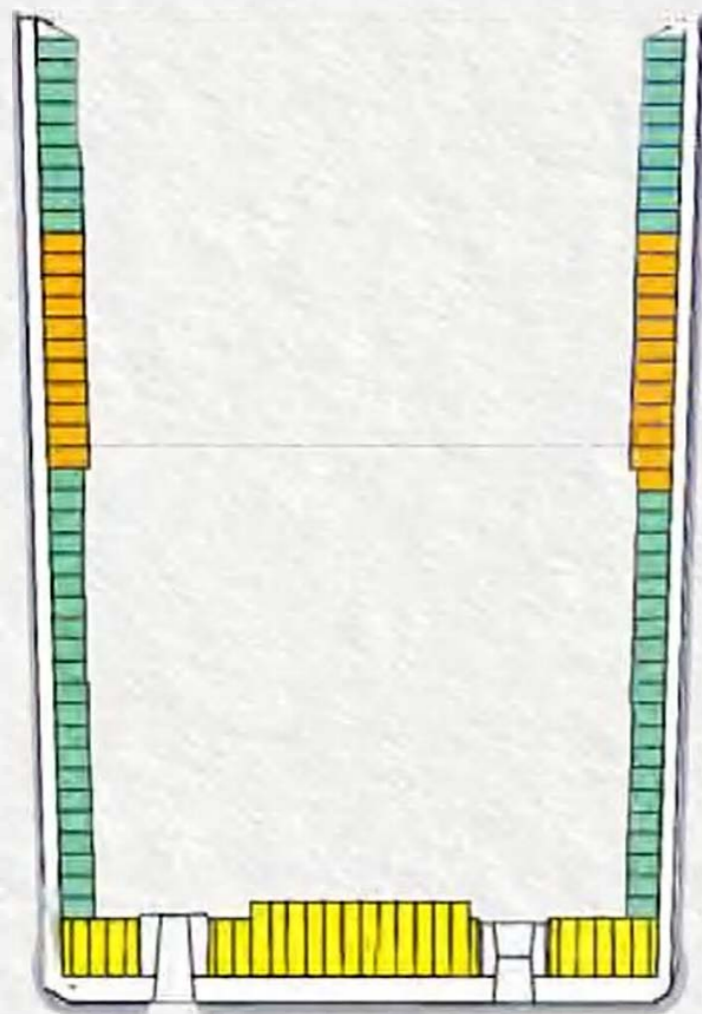


- Magnesia Carbon Bricks (MT-10A, MT-14A)



jLF ladle typical lining proposal solution

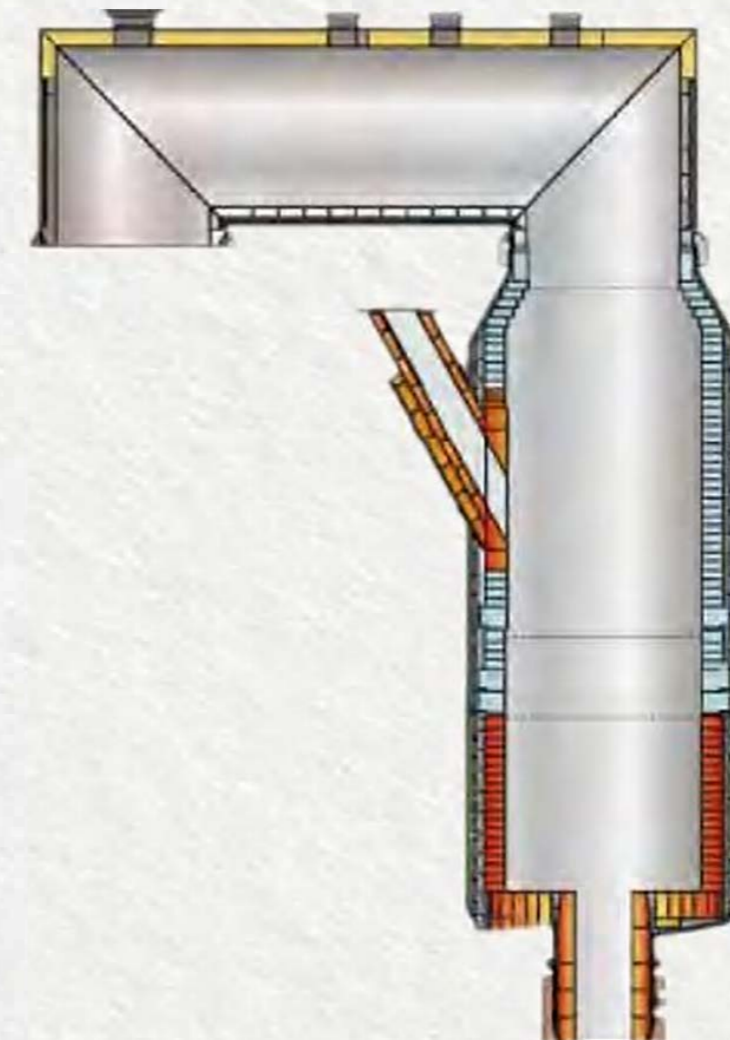
Refractory Type		Application	Quality Recommendation		
Safety Lining Bricks		Safety Lining	MZ-91		
Working Lining Bricks		Bottom	MTB-IOA	AMT-60	AMT-65
		Slagline	MTB-14A		
		Sidewall	MTB-6A	MTB-IOA	AMT-65
Monolithics		Bottom, Lip Ring	D-6		
		Around Purging Plug	ZL-B		
		Installation Monolithics	N-1	MS-91	



- Magnesia Carbon Bricks & Alumina
Magnesia Carbon Bricks
- Magnesia Carbon Bricks
- Magnesia Carbon Bricks

jRH degasser typical lining proposal solution

Refractory Type		Application	Quality Recommendation	
Working Lining Bricks	Gas Duct	ZHMGe-8A	ZHMGe-12A	
	Alloy Chute	DMGe-20A		
	Upper Vessel	BDMGe-16A		
	Middle Vessel	BDMGe-16A		
	Lower Vessel	DMGe-18A	DMGe-20A	
	Throat	DMGe-20A	DMGe-26	
	Snorkel	DMGe-20A		
Monolithics	Installation Monolithics	N-5	DK-18	

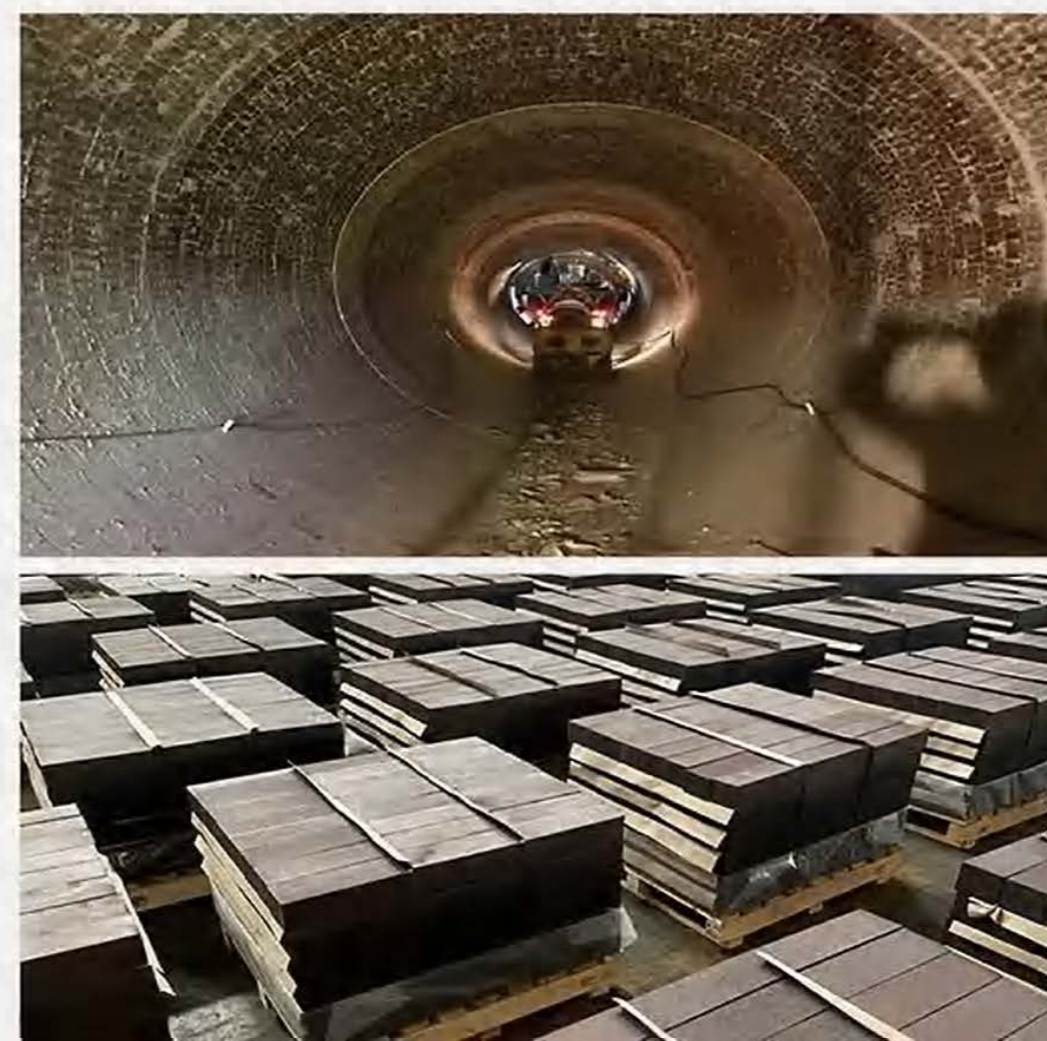




**THE WORLD'S LEADING
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04

**PRODUCT
SERIES**



Magnesia Carbon Bricks

Grade		C	B.D.	A.P.	CCS
			g/cm ³		Mpa
MTB-6A	85	7	3.10	4.00	48
MTB-10A	81	11	3.08	3.00	45
MTB-14A	77	15	3.00	2.00	42
MT-10A	81	11	3.08	3.00	45
MT-12A	79	13	3.03	3.00	42
MT-14A	77	15	3.00	2.00	42
MT-16A	75	17	2.95	2.00	38

Alumina Magnesia Carbon Bricks

		Al2O3	C	B.D.	A.P.	CCS
				g/cm ³		Mpa
AMT-60	16	57	12	2.92	4.00	50
AMT-80	17	62	10	2.95	4.00	50

Tempered Magnesia Dolomite Carbon Bricks

		C	B.D.	A.P.	CCS
			g/cm ³		Mpa
MGT-5A	67	17	2.90	3.00	40
MGT-5B	57	28	2.90	4.00	40
MGT-5C	58	25	2.90	4.00	35
MGT-8A	57	25	2.95	2.00	45
MGT-8B	57	23	2.90	3.00	40
MGT-8C	60	25	2.90	3.00	40

Fired Magnesia Dolomite Bricks

Grade	MgO	CaO	Al2O3	Fe2O3	SiO2	B.D.	A.P.	C.C.S	R.U.L	Paraffin Dip
	%	%	%	%	%	g/cm ³	%	Mpa	°C	Wax
MG-20A	75.74	21.41	0.41	1.27	0.86	3.07	8.2	110	1700	N
MG-20B	73.31	22.35	0.41	1.13	0.75	2.98	11.6	94	1700	N
MG-30A	64.14	31.89	0.46	1.04	0.86	3.1	8.7	66	1700	N
MG-30B	57.35	40.03	0.53	0.97	0.82	3.01	12.1	85	1700	N

Direct-bonded Magnesia Chrome Bricks

Grade	MgO	CaO	Cr2O3	Al2O3	Fe2O3	SiO2	B.D.	A.P.	C.C.S	R.U.L
	%	%	%	%	%	%	g/cm ³	%	Mpa	°C
ZHMGe-8A	82.3	0.95	9.01	2.09	4.28	1.04	3.06	17.2	41	1700
ZHMGe-12A	75.75	1.19	13.58	3.08	4.8	1.35	3.08	17.2	37	1700

Semi-bonded Magnesia Chrome Bricks

Grade	MgO	CaO	Cr2O3	Al2O3	Fe2O3	SiO2	B.D.	A.P.	C.C.S	R.U.L
	%	%	%	%	%	%	g/cm ³	%	Mpa	°C
BDMGe-16A	68.38	1.03	16.49	5.65	6.85	1.43	3.17	16.8	43	1750
							3.24	11.7	87	1750

Fused rebonded Magnesia Chorme

Grade	MgO	CaO	Al ₂ O ₃	Fe ₂ O ₃	SiO ₂	B.D.	A.P.	C.C.S	R.U.L		
	%	%	%	%	%	g/cm ³	%	Mpa	°C		
DMGe-18A	63.96	1.24	18.28	5.35	8.29	1.2	3.23	17.2	48	1750	N
							3.3	10.3	96	1750	Y
DMGe-20A	62.44	1.09	20.6	6.02	8.16	1.18	3.25	16.4	51	1750	N
							3.32	11.5	98	1750	Y
DMGe-26	55.42	1.13	26.22	6.29	8.9	1.2	3.32	16.3	52	1750	N
							3.43	10.5	105	1750	Y

Magnesia Bricks

Grade	MgO	CaO	Al ₂ O ₃	Fe ₂ O ₃	SiO ₂	B.D.	A.P.	C.C.S	R.U.L
	%	%	%	%	%	g/cm ³	%	Mpa	°C
MZ-91	91.21	2.82	0.79	1	4.1	2.93	14.50	85	1530
MZ-95	94.58	0.72	0.72	0.88	2.03	2.96	15.00	80	1640

Fused Magnesia Bricks

Grade	MgO	Al ₂ O ₃	SiO ₂	B.D.	A.P.	C.C.S	R.U.L			
	%	%	%	g/cm ³	%	Mpa	°C			
OMZ-98Z	95.74	0.78	0.26	0.62	0.8	1.42	3.03	15.5	75	1700

Product	Grade	MgO	CaO	Al ₂ O ₃	Fe ₂ O ₃	SiO ₂	
Magnesia ramming mix	OY-1	73.73	20.40		0.46	1.39	2.78
Magnesia ramming mix	0-1	85	8.00			4.00	1.50
Magnesia ramming mix	0-6	93	1.50	1.00	0.50	0.80	1.50
Magnesia chrome ramming mix	OK-18	62.61	1.07	19.91	4.89	6.77	1.21
Magnesia mortar	N-1	86	2.00		1.50	1.00	4.00
Magnesia chrome mortar	N-5	69.88	1.72	10.34	4.78	5.87	3.28
Plastic ramming mix	SY-1	90.33	3.52		0.25	0.81	4.25
Backfilling mix	TC-1	86.63	1.71		0.48	0.99	6.67
Gap filling mix	MS-91	91.54	1.75		0.86	0.51	4.65
Corundum self-flowing mix	ZI-8	5	1.50		85.00	1.00	4.50
Magnesia gunning mix	8-3	86.12	1.65		1.76	0.92	6.07
Fast patching mix	KB-1	88	1.20		1.20	1.00	2.50

