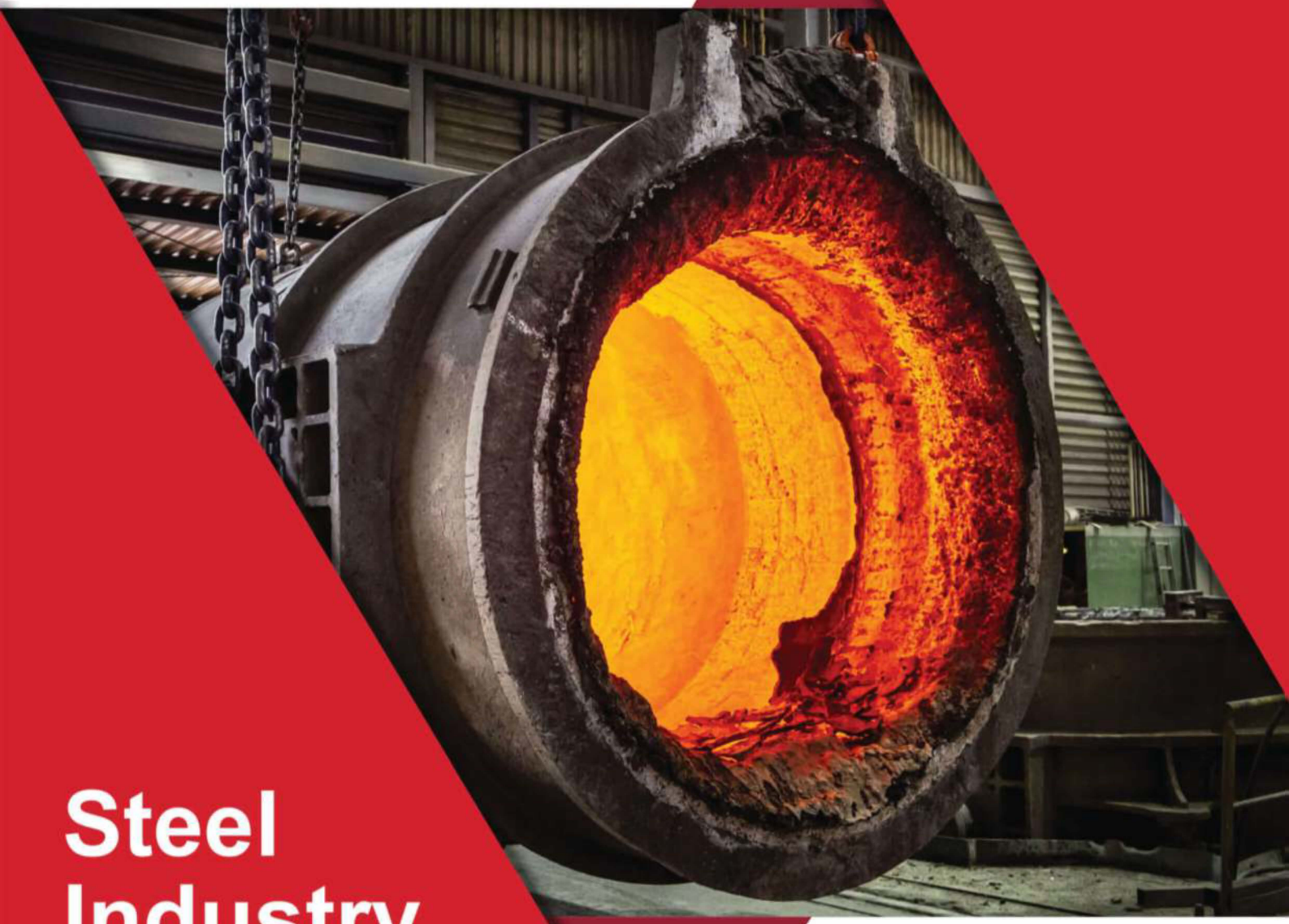
MEHR ARYAN FARS

Manufacturer of carbon oxide
refractory and monolithic refractory products



Steel Industry Division

Our high-quality fused magnesia
is used for heat exchangers and
heating elements for the refractory industry

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Industrial Zone-Shiraz-Iran

About us

The continuous growth of industries such as the steel industry in Iran and the Middle East and also the need for refractory products for this industry is a good indication of the importance of establishing refractory units in the southern province of the country.

Accordingly, Mehr Aryan Fars Company, one of the largest suppliers of refractory products in the Middle East, with a manufacturing capacity of over 50,000 tons of various refractory bricks containing Magnesia-Carbon, Magnesia-Dolomite-Carbon, Dolomite-Carbon, Dolomite, Alumina-Magnesia-carbon, and 20,000 tons of all kinds of alkaline and alumina masses, was established in Shiraz city capital of Fars province in 2012. These refractories are used in the electric arc furnaces of Ladles and Tundish steel factories. We employ the most capable experts in this field and use fully modern equipment.

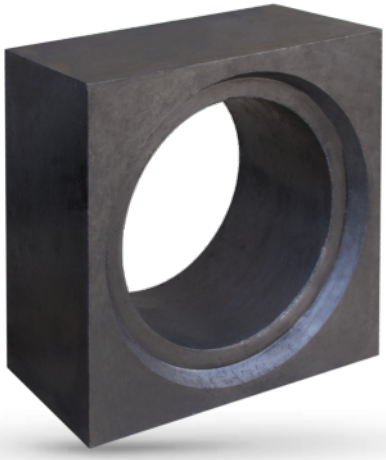
Using many years of experience in the production of high-quality products, Mehr Aryan Fars Co. utilizes the most modern equipment.

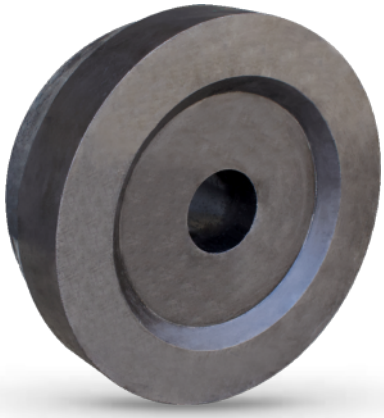
Mixing and weighing system
Raw materials preparation:

- 3 crushing lines
- 7 weighing systems
- 20 Eirich-type mixers
- Forming section having 7 automatic hydraulic presses: 5*1250-2*2500 Mt
- Tempering and firing 8 kilns each one with 24 m3 capacity

products

- Magnesia-Carbon bricks
- Alumina-Magnesia-Carbon bricks
- Magnesia-Dolomite-Carbon bricks
- Dolomite - Carbon bricks
- Basic and non-basic Monolithic
- Refractories and Mortars
- Nano-bonded high alumina castables
- Different kinds of slide gate plates
- EBT (TAP HOLE) bricks
- Ladle nozzles
- Well block
- Tundish board





Fused Magnesia

One of the important achievements of Mehr Aryan Fars is the production of Fused Magnesia. Our high-quality fused magnesia is used for heating elements and heat exchangers for industrial applications.

Fused magnesia (FM) is produced by smelting of calcined magnesia in electric arc furnaces at above 3000°C. Fused magnesia is considered to be one of the best thermal and electrical insulators with high density, high purity, and large crystals. Fused magnesia with a minimum grade of 96%, compared with its similar sintered product, has a bigger crystal size (at least 400 microns), higher mechanical strength, higher wear resistance, and better chemical stability. For these reasons, this material is used to manufacture refractory products used in hard working conditions.

The first phase of fused magnesia production in Mehr Aryan Fars has started with a manufacturing capacity of over 12,000 tons a year. According to development plans, capacity will reach 50,000 tons per year by 2025.

Raw Materials

To produce high-quality products competitive with global suppliers, Mehr Aryan Fars CO. Uses the best quality raw material with suitable physical properties and chemical analysis.

MATERIAL	CHEMICAL ANALYSIS	CRYSTAL SIZE (μm)	DENSITY (gr/cm^3)
DEAD BURNED MAGNESIA	MgO : 97%	350	3.27
FUSED MAGNESIA	MgO : 96.5 - 98.5%	1000	3.27
FLAKE GRAPHITE	C : 95-97 %		
TABULAR ALUMINA	AL_2O_3 : 99%	300	3.55

Research and Development:

Our R&D investment and a team of experts are beyond compare. They use all materials, data, and business models to create effective and unique products.

The research and development, quality control, and sales departments of Mehr Aryan Fars company work connectedly to versatility and innovation for the products well as before and after-sales services, thanks to their very well-experienced technical background. As a result, currently, Mehr Aryan Fars has outsourcing contracts (as cost per ton produced steel) for the supply and installation of refractories for Ladle and EAF in four steel companies. These projects resulted in lowering refractory consumption and production halts, thanks to the continuous analysis of refractory consumption followed by required quality improvements.

In addition to domestic customers, our products are being exported to India, Iraq, Turkey, the Sultanate of Oman, Italy, and Russia as a global market.

WORKING LAYERS BASED ON MgO-C BRICKS

METAL ZONE
ARIA MAG CARBON 10 CH
ARIA MAG CARBON 8 CH
ARIA MAG CARBON 7 CH

SAFETY LINING
ARIA MAG CHROME 70
ARIA ALUM 80
ARIA ALUM 70
ARIA CAST 85
ARIA CAST 80

AROUND BLOCKS
ARIA CAST 94

SLAG ZONE
ARIA MAG CARBON 14 CH
ARIA MAG CARBON 12 CH
ARIA MAG CARBON 10 CH

MIXES
ARIA FILL 80 B
ARIA FILL D 50 B
ARIA FILL MD 60 B
ARIA FILL CR 33 L
ARIA FILL CR 42 L

BOTTOM
ARIA MAG CARBON 7 CH
ARIA MAG CARBON 6 CH
ARIA MAG CARBON 5 CH

LADLE EDGE
ARIA CAST 70

IMPACT PAD
ARIA ALU MAG CARBON 7 HA
ARIA ALU MAG CARBON 5 T
ARIA MAG CARBON 5 CH

WORKING LAYER BASED ON MgO-C BRICKS

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	TiO_2	FIXED CAEBON	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA MAG CARBON 14 CH	97	0.1	1.2	0.6	0.5		14	2.9-3.1	4-7	300-600
ARIA MAG CARBON 12 CH	97	0.1	1.2	0.6	0.5		12	2.9-3.1	4-7	300-600
ARIA MAG CARBON 10 CH	97	0.1	1.2	0.6	0.5		10	2.9-3.1	4-7	300-600
ARIA MAG CARBON 8 CH	97	0.1	1.2	0.6	0.5		8	2.9-3.1	4-7	300-600
ARIA MAG CARBON 7 CH	97	0.1	1.2	0.6	0.5		7	2.9-3.1	4-7	300-600
ARIA MAG CARBON 6 CH	97	0.1	1.2	0.6	0.5		6	2.9-3.1	4-7	300-600
ARIA MAG CARBON 5 CH	97	0.1	1.2	0.6	0.5		5	2.9-3.1	4-7	300-600
ARIA ALU MAG CARBON 7 HA	MAX 10	88	0.2	0.6	0.5	2	7	3.20-3.45	4-7	350-600
ARIA ALU MAG CARBON 5T	MAX10	89	0.2	0.6	0.1	0.2	5	3.20-3.45	4-7	350-600

SAFETY LAYER

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	TiO_2	Cr_2O_3	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA MAG CHROME 70	60	14	2	5	7		15	2.9-3.1	17-20	300-700
ARIA ALUM 70		70		20	2.5	3.5		2.4-2.7	17-22	300-600
ARIA ALUM 80		80		13	2	4		2.5-2.7	17-22	300-600
ARIA CAST 80	4	80	3	4	2	3		2.9-3.1	16-20	300-600
ARIA CAST 85	4	85	3	3	2	3		2.9-3.1	16-20	300-600

MIXES

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	TiO_2	Cr_2O_3	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA FILL 80 B	80	1.0	2	5.0	0.5			2.4		
ARIA FILL D50 B	40	0.5	54	2.0	2.0			2.2		
ARIA FILL MD60 B	55	0.5	35	7.0	2.0			2.2		
ARIA CAST 70		70	10	20	2.0	4.0		2.7	18-22	300
ARIA CAST 94		94	2	1.0	1.0			3.10	17-20	300
ARIA FILL CR 33 L	12	10		27	27		33	2.5		
ARIA FILL CR 42 L	8	13		13	13		40	2.5		

WORKING LAYERS BASED ON AL_2O_3-MgO-C BRICKS

METAL ZONE
ARIA ALU MAG CARBON 7 H
ARIA ALU MAG CARBON 7 HA

SAFETY LINING
ARIA MAG CHROME 70
ARIA ALUM 80
ARIA ALUM 70
ARIA CAST 85
ARIA CAST 80

AROUND BLOCKS
ARIA CAST 94

SLAG ZONE
ARIA MAG CARBON 14 CH
ARIA MAG CARBON 12 CH
ARIA MAG CARBON 10 CH

MIXES
ARIA FILL 80 B
ARIA FILL D 50 B
ARIA FILL MD 60 B
ARIA FILL CR 33 L
ARIA FILL CR 42 L

BOTTOM
ARIA MAG CARBON 7 H
ARIA MAG CARBON 7 HA

LADLE EDGE
ARIA CAST 70

IMPACT PAD
ARIA ALU MAG CARBON 5 T
ARIA ALU MAG CARBON 7 HA

WORKING LAYER BASED ON AL2O3-MgO-C BRICKS

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	TiO_2	FIXED CAEBON	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA MAG CARBON 14 CH	97	0.1	1.2	0.6	0.5		14	2.9-3.1	4-7	300-600
ARIA MAG CARBON 12 CH	97	0.1	1.2	0.6	0.5		12	2.9-3.1	4-7	300-600
ARIA MAG CARBON 10 CH	97	0.1	1.2	0.6	0.5		10	2.9-3.1	4-7	300-600
ARIA ALU MAG CARBON 7 HA	MAX 10	88	0.2	0.6	0.5	2	7	3.20-3.45	4-7	350-600
ARIA ALU MAG CARBON 7 H	MAX 10	88	0.2	0.6	0.5	2	7	3.20-3.45	4-7	350-600
ARIA ALU MAG CARBON 5 TA	MAX 10	89	0.2	0.6	0.1	0.2	5	3.20-3.45	4-7	350-600
ARIA ALU MAG CARBON 5 T	MAX 10	89	0.2	0.6	0.1	0.2	5	3.20-3.45	4-7	350-600

SAFETY LAYER-1

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	TiO_2	Cr_2O_3	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA MAG CHROME 70	60	14	2	5	7		15	2.9-3.1	17-20	300-700
ARIA ALUM 70		70		20	2.5	3.5		2.4-2.7	17-22	300-600
ARIA ALUM 80		80		13	2	4		2.5-2.7	17-22	300-600
ARIA CAST 80	4	80	3	4	2	3		2.9-3.1	16-20	300-600
ARIA CAST 85	4	85	3	3	2	3		2.9-3.1	16-20	300-600

MIXES-1

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	TiO_2	Cr_2O_3	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA FILL 80 B	80	1.0	2	5.0	0.5			2.4		
ARIA FILL D50 B	40	0.5	54	2.0	2.0			2.2		
ARIA FILL MD60 B	55	0.5	35	7.0	2.0			2.2		
ARIA CAST 70		70	10	20	2.0	4.0		2.7	18-22	300
ARIA CAST 94		94	2	1.0	1.0			3.10	17-20	300
ARIA FILL CR 33 L	12	10		27	27		33	2.5		
ARIA FILL CR 42 L	8	13		13	13		40	2.5		

WORKING LAYERS BASED ON MgO-DOLOMITE-C BRICKS

METAL ZONE
ARIA MD CARBON 10 CH
ARIA MD CARBON 7 CH

SAFETY LINING
ARIA MAG CHROME 70
ARIA ALUM 80
ARIA ALUM 70
ARIA CAST 85
ARIA CAST 80

AROUND BLOCKS
ARIA CAST 94

SLAG ZONE
ARIA MD CARBON 12 CH
ARIA MD CARBON 10 CH

MIXES
ARIA FILL 80 B
ARIA FILL D 50 B
ARIA FILL MD 60 B
ARIA FILL CR 33 L
ARIA FILL CR 42 L

BOTTOM
ARIA MD CARBON 7 CH
ARIA MD CARBON 5 CH

LADLE EDGE
ARIA CAST 70

IMPACT PAD
ARIA ALU MAG CARBON 5 T
ARIA ALU MAG CARBON 7 HA
ARIA MAG CARBON 5 CH
ARIA MD CARBON 5 CH

WORKING LAYER BASED ON MgO-DOLOMITE-C BRICKS

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	TiO_2	FIXED CAEBON	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA MD CARBON 12 CH	50	0.5	48	0.6	0.5		12	2.8-3.0	4-7	300-600
ARIA MD CARBON 10 CH	50	0.5	48	0.6	0.5		10	2.8-3.0	4-7	300-600
ARIA MD CARBON 7 CH	50	0.5	48	0.6	0.5		7	2.8-3.0	4-7	300-600
ARIA MD CARBON 5 CH	50	0.5	48	0.6	0.5		5	2.8-3.0	4-7	300-600
ARIA MD CARBON 3 CH	50	0.5	48	0.6	0.5		3	2.8-3.0	4-7	300-600
ARIA ALU MAG CARBON 5 T	MAX 10	89	0.2	0.6	0.1	0.2	5	3.20-3.45	4-7	350-600
ARIA ALU MAG CARBON 7 HA	MAX 10	88	0.2	0.6	0.5	2	7	3.20-3.45	4-7	350-600
ARIA ALU MAG CARBON 5 CH	97	0.1	1.2	0.6	0.5		5	2.9-3.1	4-7	300-600

SAFETY LAYER-2

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	TiO_2	Cr_2O_3	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA MAG CHROME 70	60	14	2	5	7		15	2.9-3.1	17-20	300-700
ARIA ALUM 70		70		20	2.5	3.5		2.4-2.7	17-22	300-600
ARIA ALUM 80		80		13	2	4		2.5-2.7	17-22	300-600
ARIA CAST 80	4	80	3	4	2	3		2.9-3.1	16-20	300-600
ARIA CAST 85	4	85	3	3	2	3		2.9-3.1	16-20	300-600

MIXES-2

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	TiO_2	Cr_2O_3	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA FILL 80 B	80	1.0	2	5.0	0.5			2.4		
ARIA FILL D50 B	40	0.5	54	2.0	2.0			2.2		
ARIA FILL MD60 B	55	0.5	35	7.0	2.0			2.2		
ARIA CAST 70		70	10	20	2.0	4.0		2.7	18-22	300
ARIA CAST 94		94	2	1.0	1.0			3.10	17-20	300
ARIA FILL CR 33 L	12	10		27	27		33	2.5		
ARIA FILL CR 42 L	8	13		13	13		40	2.5		

WORKING LAYERS BASED ON DOLOMITE-C BRICKS

METAL ZONE
ARIA D CARBON 10 CH
ARIA D CARBON 7 CH
ARIA D CARBON 3 CH

SAFETY LINING
ARIA MAG CHROME 70
ARIA ALUM 80
ARIA ALUM 70
ARIA CAST 85
ARIA CAST 80

AROUND BLOCKS
ARIA CAST 94

SLAG ZONE
ARIA D CARBON 12 CH
ARIA D CARBON 10 CH
ARIA D CARBON 3 CH

MIXES
ARIA FILL 80 B
ARIA FILL D 50 B
ARIA FILL MD 60 B
ARIA FILL CR 33 L
ARIA FILL CR 42 L

BOTTOM
ARIA D CARBON 7 CH
ARIA D CARBON 5 CH

LADLE EDGE
ARIA CAST 70

IMPACT PAD
ARIA ALU MAG CARBON 5 T
ARIA D CARBON 5 CH
ARIA D CARBON 3 CH

WORKING LAYER BASED ON DOLOMITE-C BRICKS

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	FIXED CAEBON	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA D CARBON 12 CH	40	0.5	58	1.0	1.0	12	2.8-3.0	4-7	300-600
ARIA D CARBON 10 CH	40	0.5	58	1.0	1.0	10	2.8-3.0	4-7	300-600
ARIA D CARBON 7 CH	40	0.5	58	1.0	1.0	7	2.8-3.0	4-7	300-600
ARIA D CARBON 5 CH	40	0.5	58	1.0	1.0	5	2.8-3.0	4-7	300-600
ARIA D CARBON 3 CH	40	0.5	58	1.0	1.0	3	2.8-3.0	4-7	300-600
ARIA ALU MAG CARBON 5 T	MAX 10	89	0.2	0.6	0.5	5	3.20-3.45	4-7	350-600

SAFETY LAYER-3

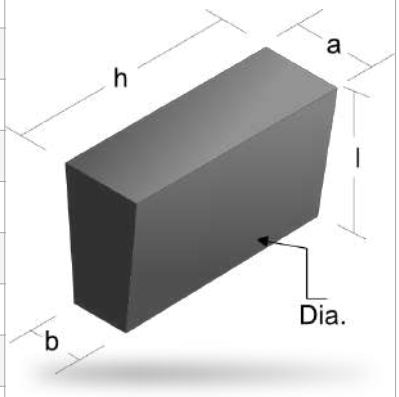
NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	TiO_2	Cr_2O_3	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA MAG CHROME 70	60	14	2	5	7		15	2.9-3.1	17-20	300-700
ARIA ALUM 70		70		20	2.5	3.5		2.4-2.7	17-22	300-600
ARIA ALUM 80		80		13	2	4		2.5-2.7	17-22	300-600
ARIA CAST 80	4	80	3	4	2	3		2.9-3.1	16-20	300-600
ARIA CAST 85	4	85	3	3	2	3		2.9-3.1	16-20	300-600

MIXES-3

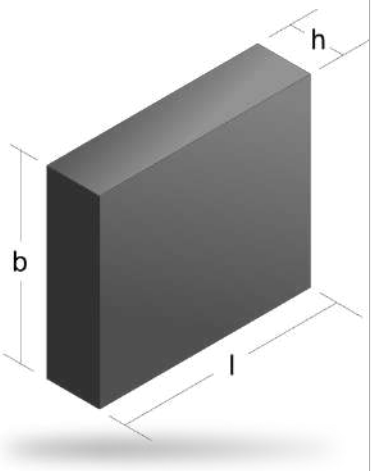
NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	TiO_2	Cr_2O_3	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA FILL 80 B	80	1.0	2	5.0	0.5			2.4		
ARIA FILL D50 B	40	0.5	54	2.0	2.0			2.2		
ARIA FILL MD60 B	55	0.5	35	7.0	2.0			2.2		
ARIA CAST 70		70	10	20	2.0	4.0		2.7	18-22	300
ARIA CAST 94		94	2	1.0	1.0			3.10	17-20	300
ARIA FILL CR 33 L	12	10		27	27		33	2.5		
ARIA FILL CR 42 L	8	13		13	13		40	2.5		

STEEL LADLE BRICKS

SHAPE	DIMENSION (mm)					VOLUME (Dm^3)	LADLE BRICKS (WALL)
	l	a	b	h	Dia.		
P D 1	200	150	130	125	3000	3.50	
P D 2	200	150	140	125	6000	3.66	
P D 3	250	150	137.5	125	6000	4.49	
P D 4	250	150	125	125	2885	4.28	
P D 1 A	250	150	130	125	3750	4.38	
P D 2 A	250	150	140	125	7500	4.53	
3 P 6	155	103	97	250	5322	3.88	
3 P 10	155	105	95	250	3255	3.88	
3 P 20	155	110	90	250	1705	3.88	
4 P 8	187	104	96	250	4862	4.68	
4 P 12	187	106	94	250	3304	4.68	
4 P 22	187	111	89	250	1887	4.68	
5 P 8	220	104	96	250	5720	5.50	
5 P 10	220	105	95	250	4620	5.50	
5 P 16	220	108	92	250	2970	5.50	
5 P 22	220	111	89	250	2220	5.50	
6 P 10	250	105	95	250	5250	6.25	
6 P 18	250	109	91	250	3028	6.25	
6 P 22	250	111	89	250	2173	6.25	
7 P 12	280	106	94	250	3957	6.90	
7 P 18	280	109	91	250	4089	7.11	

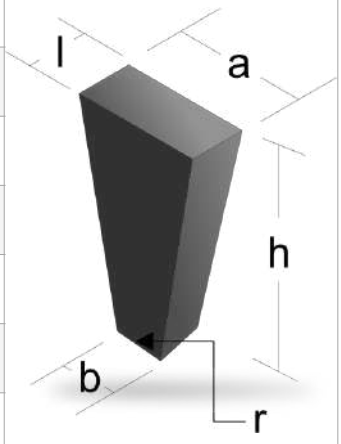


SHAPE	DIMENSION (mm)			VOLUME (Dm^3)	LADLE BRICKS (BOTTOM)
	l	b	h		
B 1	187	155	124	3.59	
B 2	210	187	155	6.09	
B 3	340	210	88	6.28	
1 P 0	250	90	125	2.81	
2 P 0	250	124	125	3.88	
3 P 0	250	155	100	3.88	
4 P 0	250	187	100	4.68	
5 P 0	250	220	100	5.50	
6 P 0	250	250	100	6.25	
D 250	250	150	125	4.69	
D 300	300	150	125	5.63	
D 350	350	150	125	6.56	



STEEL LADLE BRICKS-1

SHAPE	DIMENSION (mm)				VOLUME (Dm^3)	RADIUS 2R(mm)	LADLE BRICKS (WALL)
	l	a	b	h			
5 / 6	100	153	147	127	1.91	6233	
5 / 12	100	156	144	127	1.91	3048	
5 / 20	100	160	140	127	1.91	1778	
6 / 6	100	153	147	152.4	2.25	7350	
6 / 8	100	154	146	152.4	2.25	5475	
6 / 20	100	160	140	152.4	2.25	2100	
6 / 30	100	165	135	152.4	2.25	1350	
7 / 8	100	154	146	177.8	2.67	6490	
7 / 16	100	158	142	177.8	2.67	3156	
7 / 20	100	160	140	177.8	2.67	2489	
7 / 30	100	165	135	177.8	2.67	1600	
8 / 6	100	153	147	203.2	3.00	9800	
8 / 8	100	154	146	203.2	3.00	7300	
8 / 16	100	158	142	203.2	3.00	2800	
8 / 20	100	160	140	203.2	3.00	7300	
9 / 8	100	154	146	228.6	3.43	8344	
9 / 16	100	158	142	228.6	3.43	4058	
9 / 20	100	160	140	228.6	3.43	3200	
9 / 30	100	165	135	228.6	3.43	2057	



EAF (ELECTRIC ARC FURNACE)

HOT SPOTS
ARIA MAG CARBON 15 CHA
ARIA MAG CARBON 14 CHA
ARIA MAG CARBON 12 CHA
ARIA MAG CARBON 10 CHA

EBT (TAP HOLE)
ARIA MAG CARBON 15 CHTA
ARIA MAG CARBON 10 CHAS
ARIA ALUM 97 DT
ARIA ALU MAG CARBON 15 T

SAFETY LINING
ARIA MAG 98
ARIA MAG 92

COLD RAMMING MIX
ARIA RAM MFH-80 C
ARIA RAM 96 C
ARIA RAM 92 C

MIXES
ARIA MIX 92
ARIA MIX 97
ARIA OLIVIA FILL 45 F
ARIA MAGNESIA FILL 90 F
ARIA MAG GUN 85
ARIA MAG GUN 92

LOWER PARTS
ARIA MAG CARBON 7 CHA
ARIA MAG CARBON 5 CHA

COLD SPOTS
ARIA MAG CARBON 12 CHA
ARIA MAG CARBON 10 CHA

HOT REPAIR
ARIA RAM MFH-80 H
ARIA RAM 92 H
ARIA RAM MD 60 H
ARIA RAM D 50 H

WORKING LAYER

NAME	MgO	CaO	SiO_2	Fe_2O_3	FIXED CAEBON	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA MAG CARBON 15 CHA	98.5	0.6	0.3	0.2	15	3.1-3.2	2-4	400-700
ARIA MAG CARBON 14 CHA	97	1.2	0.6	0.5	14	3.0-3.15	4-7	300-600
ARIA MAG CARBON 12 CHA	97	1.2	0.6	0.5	12	3.0-3.15	4-7	300-600
ARIA MAG CARBON 10 CHA	97	1.2	0.6	0.5	10	3.0-3.15	4-7	300-600
ARIA MAG CARBON 7 CHA	97	1.2	0.6	0.5	7	3.0-3.15	4-7	300-600
ARIA MAG CARBON 5 CHA	97	1.2	0.6	0.5	5	3.0-3.15	4-7	300-600

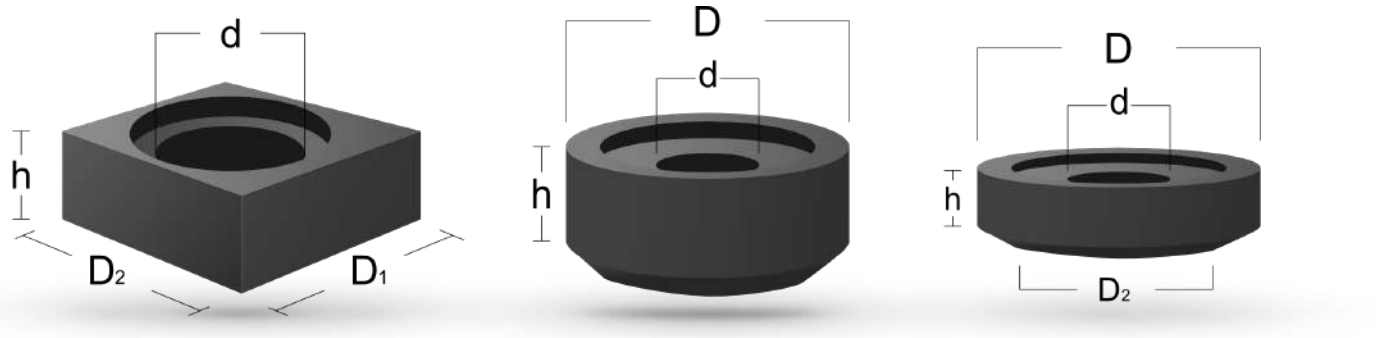
SAFETY LAYER-4

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA MAG 96	96	0.5	1.5	2	0.5	2.9-3.1	16-20	400-800
ARIA MAG 92	92	0.5	2	4	0.5	2.9-3.1	16-20	400-800

MIXES-4

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	B.D (g/cm^3)	MIX SERVICE TEMP (^0C)	GRAIN SIZE (mm)
ARIA RAM MFH-80 C	78	1.0	20	1.0	4	2.4	1750	0-6
ARIA RAM 96 C	96	0.5	3	2	1	2.5	1750	0-5
ARIA RAM 92 C	92	1.0	4	4	1	2.4	1750	0-5
ARIA RAM MFH-80 H	76	1.0	20	1.5	4	2.4	1750	0-6
ARIA RAM 92 H	92	0.5	3	3	1.0	2.4	1750	0-5
ARIA RAM MD60 H	50	0.5	45	3	0.5	2.2	1750	0-5
ARIA RAM D50 H	45	0.5	50	3	0.5	2.2	1750	0-5
ARIA RAM GUN 92	92	0.5	3	3	1.5	2.4	1750	0-3
ARIA RAM GUN 85	85	0.5	4	5	1.5	2.4	1750	0-3
ARIA MIX 92	92	0.5	3	3	1.5	2.4	1750	0-3
ARIA MIX 97	96	0.5	1.0	1.0	0.5	2.6	1750	0-3
ARIA OLIVIA FILL 45 F	39-44	2.5	2.5	45	7	2.3	1750	3-8
ARIA MAGNESIA FILL 90 F	90	0.5	3	4	0.5	2.4	1750	2-6

EBT (TAP HOLE)



EBT BRICKS

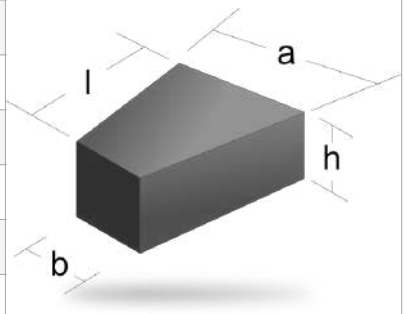
NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	FIXED CAE-BON	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)	APPLICA-TION
ARIA MAG CARBON 15 CHTA	98	0.1	1.2	0.5	0.5	15	3.0-3.1	3	400-700	INNER TUBE BRICKS AND END BRICKS
ARIA MAG CARBON 10 CHTA	97.5	0.1	1.2	0.6	0.5	10	2.9-3.1	4-7	400-700	SURROUNDING BLOCKS
ARIA ALUM 97 DT	0.1	97	0.1	MAX 3	0.1	3	3.0-3.1	4-7	MIN 600	INNER TUBE BRICKS AND END BRICKS
ARIA ALU MAG CARBON 15 T	10	89	0.2	0.5	0.1	15	3.20-3.45	2-4	400-700	END BRICKS

SHAPE	DIMENSION (mm)				VOLUME (Dm^3)	
	D_1	D_2	d	h		
NF 55 / 40-15	550	550	400	150	26.53	SURROUNDING BLOCKS
NF 55 / 40-20	550	550	400	200	35.38	
KRW 15	457	397	150	180	23.38	END BRICKS
KRW 16	457	397	160	180	23.00	
KRW 17	457	397	170	180	22.59	
KRW 18	457	397	180	180	22.15	
KRW 19	457	397	190	180	21.69	
KRW 20	457	397	200	180	21.20	

SHAPE	DIMENSION (mm)			VOLUME (Dm^3)	
	D	d	h		
RW 15	350	150	150	11.93	INNER TUBE BRICKS
RW 16	350	160	150	11.56	
RW 17	350	170	150	11.01	
RW 18	350	180	150	10.77	
RW 19	350	190	150	10.16	
RW 20	350	200	150	9.88	

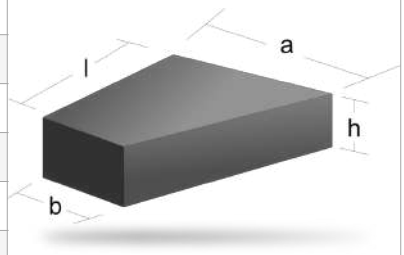
EAF (ELECTRIC ARC FURNACE) BRICKS

SHAPE	DIMENSION (mm)					VOLUME (Dm^3)	EAF BRICKS
	l	a	b	h	Dia.		
25 / 0	250	150	150	100		3.75	
25 / 8	250	154	146	100	9625	3.75	
25 / 16	250	158	142	100	4938	3.75	
25 / 30	250	165	135	100	2750	3.75	
25 / 60	250	180	120	100	1500	3.75	
30 / 0	300	150	150	100		4.50	
30 / 8	300	154	146	100	11550	4.50	
30 / 20	300	160	140	100	4800	4.50	
30 / 24	300	162	138	100	4050	4.50	
30 / 40	300	170	130	100	2550	4.50	
30 / 70	300	185	115	100	1586	4.50	
35 / 0	350	150	150	100		5.25	
35 / 8	350	154	146	100	13475	5.25	
35 / 20	350	160	140	100	5600	5.25	
35 / 40	350	170	130	100	2975	5.25	
35 / 80	350	190	110	100	1663	5.25	
40 / 0	400	150	150	100		6.00	
40 / 8	400	154	146	100	15400	6.00	
40 / 20	400	160	140	100	6400	6.00	
40 / 40	400	170	130	100	3400	6.00	
40 / 80	400	190	110	100	1900	6.00	
45 / 0	450	150	150	100		6.75	
45 / 8	450	154	146	100	17325	6.75	
45 / 20	450	160	140	100	7200	6.75	
45 / 40	450	170	130	100	3825	6.75	
45 / 90	450	195	105	100	1950	6.75	
50 / 0	500	150	150	100		7.50	
50 / 8	500	154	146	100	19250	7.50	
50 / 20	500	160	140	100	8000	7.50	
50 / 40	500	170	130	100	4250	7.50	
50 / 60	500	180	120	100	3000	7.50	
50 / 100	500	200	100	100	2000	7.50	



EAF (ELECTRIC ARC FURNACE) BRICKS-1

SHAPE	DIMENSION (mm)					VOLUME (Dm^3)	EAF BRICKS
	l	a	b	h	Dia.		
55 / 0	550	150	150	100		8.25	
55 / 8	550	154	146	100	21175	8.25	
55 / 20	550	160	140	100	8800	8.25	
55 / 40	550	170	130	100	4675	8.25	
55 / 60	550	180	120	100	3300	8.25	
55 / 100	550	200	100	100	2200	8.25	
60 / 0	600	150	150	100	23100	9.00	
60 / 8	600	154	146	100	9600	9.00	
60 / 20	600	160	140	100	51	9.00	
60 / 40	600	170	130	100	3600	9.00	
60 / 60	600	180	120	100	2400	9.00	
60 / 100	600	200	100	100		9.00	
65 / 0	6500	150	150	100	25025	9.75	
65 / 8	6500	154	146	100	10400	9.75	
65 / 20	6500	160	140	100	5525	9.75	
65 / 40	6500	170	130	100	10400	9.75	
65 / 60	6500	180	120	100	5525	9.75	
65 / 100	6500	200	100	100	3900	9.75	
70 / 0	700	150	150	100	2600	10.50	
70 / 8	700	154	146	100	26950	10.50	
70 / 20	700	160	140	100	11200	10.50	
70 / 40	700	170	130	100	5950	10.50	
70 / 60	700	180	120	100	4200	10.50	
70 / 100	700	200	100	100	2800	10.50	
75 / 0	750	150	150	100		11.25	
75 / 8	750	154	146	100	28875	11.25	
75 / 20	750	160	140	100	12000	11.25	
75 / 40	750	170	130	100	6375	11.25	
75 / 60	750	180	120	100	4500	11.25	
75 / 100	750	200	100	100	3000	11.25	
80 / 20	800	160	140	100	12800	12.00	
80 / 40	800	170	130	100	6800	12.00	
80 / 60	800	180	120	100	4800	12.00	
80 /120	800	210	90	100	2800	12.00	



TUNDISH

WORKING LAYER-1

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	B.D (g/cm^3)	GRAIN SIZE (%)	C.C.S (kgf/cm^2)
ARIA TUN 70 H	MIN 70	1.5	6-8	MAX 15.0	1.5	1.5-1.75	00-1.2	1700
ARIA TUN 80 H	MIN 80	1.0	4	MAX 13.0	1.0	1.5-1.75	00-1.2	1750
ARIA TUN 90 H	MIN 90	1.0	3-4	3-4	0.5	1.5-1.75	00-1.2	1750
ARIA TUN 94 H	MIN 94	0.5	2	MAX 3.0	0.5	1.5-1.75	00-1.2	1750

SAFETY LAYER-5

NAME	MgO	AL_2O_3	CaO	SiO_2	Fe_2O_3	TiO_2	B.D (g/cm^3)	A.P (%)	C.C.S (kgf/cm^2)
ARIA ALUM 70		70		20	2.5	3.5	2.4-2.7	17-22	300-600
ARIA ALUM 80		80		13	2	4	2.5-2.7	17-22	300-600
ARIA CAST 80	4	80	3	4	2	3	2.9-3.1	16-20	300-600
ARIA CAST 85	4	85	3	3	2	3	2.9-3.1	16-20	300-600

Gallery

MEHR ARYAN FARS

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