

Steel Industry

Atiq Refractories Company



Introduction

Atiq refractories company has gained its position in the refractory industry of the country due to its valuable and successful experiences over the past 30 years in the refractory field, highly skilled staff, and conformity to the highest standard quality requirements. Our company, located in Razi Industrial Town, Isfahan province, produces all kinds of refractory materials used in steel, cement, oil, petrochemical, and other industries by taking advantage of the knowledge and scientific perspective of our qualified technicians and experts.

Objectives

- 1- Supplying the demands of special refractory materials in order to export globally.
- 2- A specific goal to meet the growing worldwide demand and therefore hold our position at the forefront of the refractory industry.
- 3- Establishing a competitive environment with prominent companies in the refractory industry.
- 4- Study and research to obtain the know-how of new refractory products according to the ever-growing demands of our customers.
- 5- Enhancing the company's engineering capability to improve the quality of products continuously.
- 6- Development and completion plan of production lines to manufacture special products.

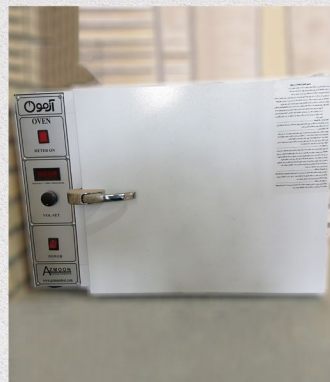


Research and Development Center

The research and development center of Atiq refractories Company takes advantage of well-educated and expert research staff and a well-equipped refractory laboratory to design, consult and develop new products and processes to meet the demand and expectations of customers in various industries.

As an innovative part of the organization, this center is primarily responsible for:

- Developing new products to complete the company's product portfolio
- Providing new formulations to improve product quality and properties while reducing costs
- Interacting constructively with research and academic institutions to exchange scientific and technical information and promote innovative ideas
- Monitoring the quality control unit (QC) to ensure the quality of incoming raw materials and orders sent to our customers



Products

Other

Raw Olivine

Calcined Olivine

EBT Sand

Ladle & Tundish
Melting Cover

Steel & Metal
Fiber

Anchor

Shaped Refractory

Slide Gate

Nozzle

Well Block

Precast
Shapes

Tundish
Nozzle

Ladle Nozzle

Ladle
Well Block

Tundish
Well Block

Unshaped Refractory (Monolithic)

Ramming
Ref.

Gunning
Ref.

Castable
Ref.

Mortars

Magnesia

Doloma

Alumina

Magnesia

Tundish
Plaster

Alumina

Wear
Resistance

Insulating

Alumina

Magnesia

Green Mor.

Grey Mor.



Technical Information

Refractory Castables and Gunnings

Grade	Chemical Analysis			Temp. Limit of App. °C	C.C.S @ 1300 °C kg/cm ²	Mixing water l/100 kg	B.D g/cm ³	Application Method	Grain Size mm
	Al ₂ O ₃	Fe ₂ O ₃	CaO						
	Min%	Max%	Max%						
Kimia Cast A40LI	35	6	15	1200	70 (110°C)	38	1.05	C & T*	0 - 5
Kimia Gun A40LI	35	6	15	1200	70 (110°C)	Added at Nozzle	1.05	G	0 - 5
Kimia Cast A45	43	6.5	12	1200	300 (1100°C)	18	2.1	C & T	0 - 5
Kimia Cast A55	53	6.5	12	1300	300	18	2.2	C & T	0 - 5
Kimia Cast A55LF	53	2	8	1400	400	11	2.2	C & T	0 - 5
Kimia Gun A55	53	2	8	1400	400	Added at Nozzle	2.2	G	0 - 5
Kimia Cast A60	58	2	8	1450	400	11	2.3	C & T	0 - 5
Kimia Cast A60LC	58	2	2.5	1450	400	8	2.3	C & T	0 - 5
Kimia Gun A60	58	2	8	1450	400	Added at Nozzle	2.3	G	0 - 5
Kimia Cast A65	63	2	8	1500	400	11	2.4	C & T	0 - 5
Kimia Gun A65	63	2	8	1500	400	Added at Nozzle	2.4	G	0 - 5
Kimia Cast A70	68	2	3.5	1600	500	11	2.5	C & T	0 - 5
Kimia Cast A70LC	68	2	2.5	1600	500	8	2.5	C & T	0 - 5
Kimia Gun A70	68	2	3.5	1600	500	Added at Nozzle	2.5	G	0 - 5
Kimia Cast A75	73	2	3.5	1650	500	11	2.5	C & T	0 - 5
Kimia Cast A80	78	2	3.5	1700	500	11	2.6	C & T	0 - 5
Kimia Cast A80LC	78	2	2.5	1700	700	8	2.6	C & T	0 - 5
Kimia Cast A85	83	1.5	3.5	1750	500	11	2.7	C & T	0 - 5
Kimia Cast A85LC	83	1.5	2.5	1750	700	8	2.7	C & T	0 - 5
Kimia Cast A90	88	1	3.5	1800	600	10	2.8	C & T	0 - 5
Kimia Cast A90LC	88	1	2.5	1800	800	8	2.8	C & T	0-5
Kimia Cast A94	93	1	3.5	1850	800	10	3	C & T	0 - 5
Kimia Cast A94LC	93	1	2.5	1850	800	8	3	C & T	0 - 5

* C: Casting T: Trowelling G: Gunning

Technical Information

Magnesia Ramming & Tundish Plaster

Grade	Chemical Analysis			B.D (g/cm ³)	Apparent Porosity Vol %	Temp. Limit of Application (°C)	Time Limit of Application Min
	MgO	SiO ₂	Fe ₂ O ₃				
	%	%	Max %				
Kimia Coat G1	85±2	5±3	2	1.8-2.0	35-45	1750	760
Kimia Coat G2	80±3	10±3	2.5	1.7-1.9	35-45	1650	540
Kimia Coat G3	75±5	15±3	5	1.6-1.8	35-45	1650	360
Kimia Coat G4	60±5	25±3	7	1.5-1.7	35-45	1650	180
Kimia Coat G5	50±5	30±3	8	1.4-1.6	35-45	1650	120

Green & Grey Mortars

Grade	Chemical Analysis						
	Al ₂ O ₃	Fe ₂ O ₃	MgO	SiO ₂	Cr ₂ O ₃	C	LOI
	%	%	%	%	%	%	%
Green Mor	75-80	1-1.5	1-2	15-20	5-6	1-1.5	2-3
Grey Mor	75-80	1-1.5	1-2	15-20	1-1.5	4-5	5-7



Technical Information

Wear Resistance Castables (Falcon)

Grade	Chemical Analysis					Temp. Limit of App.	C.C.S @ 110 °C	Application Method	Grain Size	Description & Application
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	SiC	CaO					
	%	%	%	%	%					
Falcon S70	2	68	0.5	0	18	400	300	C & T & G*	0-3 & 0-5	Excellent protection against moderate wear at low temperatures
Falcon A30	32	38	1.5	0	18	400	400	C & T & G	0-3 & 0-5	Excellent protection against severe wear at low temperatures
Falcon AK55/10	53	7	1	10	18	400	400	C & T & G	0-3 & 0-5	High wear resistance, applicable for places and equipment exposed to powder flow
Falcon AK55/30 HT	56	9	1	30	4	1400	400	C & T & G	0-3 & 0-5	Excellent wear protection for high temperature applications
Falcon AK75/10 HT	74	7	1	10	5	1400	400	C & T & G	0-3 & 0-5	
Falcon K65	2	12	1	65	18	400	500	C & T	0-3 & 0-5	Providing ultimate protection against severe wear at relatively low temperatures
Falcon K75 HT	18	1	0.5	73	5	1400	500	C & T	0-3 & 0-5	Providing ultimate protection against severe wear in extreme conditions

* C: Casting T: Trowelling G: Gunning

Mortars

Grade	Chemical Analysis			Temp. Limit of App.	B.D	Grain Size	Description & Application
	Al ₂ O ₃	Fe ₂ O ₃	CaO				
	Min%	Max%	Max%				
Kimia Mor A40	38	2.5	2	1400	2.1	0-0.4	General Applications Up to 1400°C
Kimia Mor A70	67	2	2	1700	2.5	0-0.4	General Applications Up to 1700°C



Technical Information

EBT Sand

Grade	Chemical Analysis						B.D	Grain Size	Description & Application
	MgO	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	LOI			
	%	Max%	Max%	Max%	Max%	%			
EBT Sand	50±3	1	39	8.5	1.5	2.5	1.7	2-6 & 3-8	Tap Hole Filler in Electric Arc Furnace

Ladle Well block

Grade	Chemical Analysis					B.D	C.C.S @ 110 °C	C.C.S @ 1300 °C
	Al ₂ O ₃	Fe ₂ O ₃	CaO	SiO ₂	K ₂ O+Na ₂ O			
	%	%	%	%	%			
Ladle Well block 1QC & 2QC	83-85	1-2	2.5-3.5	7-10	<1	2.7-2.8	500-700	700-1000
Ladle Well block 1QC & 2QC	90-92	<1	2.5-3.5	3-6	<1	2.8-2.9	500-700	800-1100

Atiq Refractories Company produces any type of well blocks (for ladle, tundish and purge plug), tundish nozzles, slide gates, and precast shapes based on customers demands and circumstances.



Slide Gate



Ladle and Purge Plug Well Blocks



Tundish Nozzle



Ladle Nozzles



Steel Fiber



Tundish Well Blocks



Ladle Shroud



Precast Shapes

Atiq Refractories Company produces all kinds of conventional and advanced alumina castables and gunning mixes, magnesia and tundish mixes, and different types of mortars based on customers demands and circumstances.



Low and Ultra Low Cement
Alumina Castables



Green Mortar



Gunning Mixes



EBT Sand



Wear Resistance Castables



Insulating Castables



High Alumina Castables



Tundish Plasters



Head Office: Unit 2, Abtin Building, Baghziar St, Sohrevardi Ave, ESFAHAN, IRAN

Factory: Atiq St, Fanavaran Blvd, Noavaran Sq, Razi Industrial Town, ESFAHAN, IRAN

Head Office Tel: +98-3137778135

+98-3137779396

Sales Phone: +989134336018



+989134336018



atiq_refractory



atiq refractories Co.

Website: www.atiq-refractory.com

