



کاتالوگ صنعت سیمان  
Cement Industry

Atiq Refractories Company

شرکت کیمیا کاران عتیق



## معرفی

شرکت کیمیا کاران عتیق مفتخر است با بهره‌گیری از تجربیات ارزشمند و موفق ۳۰ ساله گذشته در صنعت دیرگداز کشور و با در اختیار داشتن متخصصین و کارشناسان و با رعایت استانداردهای کیفی، جایگاه خود را در صنعت دیرگداز کشور کسب نموده است. این مجموعه با استفاده از دانش و نگاه علمی متخصصان این صنعت با هدف تولید انواع مواد نسوز مصرفی در صنایع فولاد، سیمان، نفت، پتروشیمی و... با ارائه خدمات پس از فروش متناسب با نیاز مشتری، در شهرک صنعتی رازی واقع در استان اصفهان در حال فعالیت می باشد.

## 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.

## اهداف

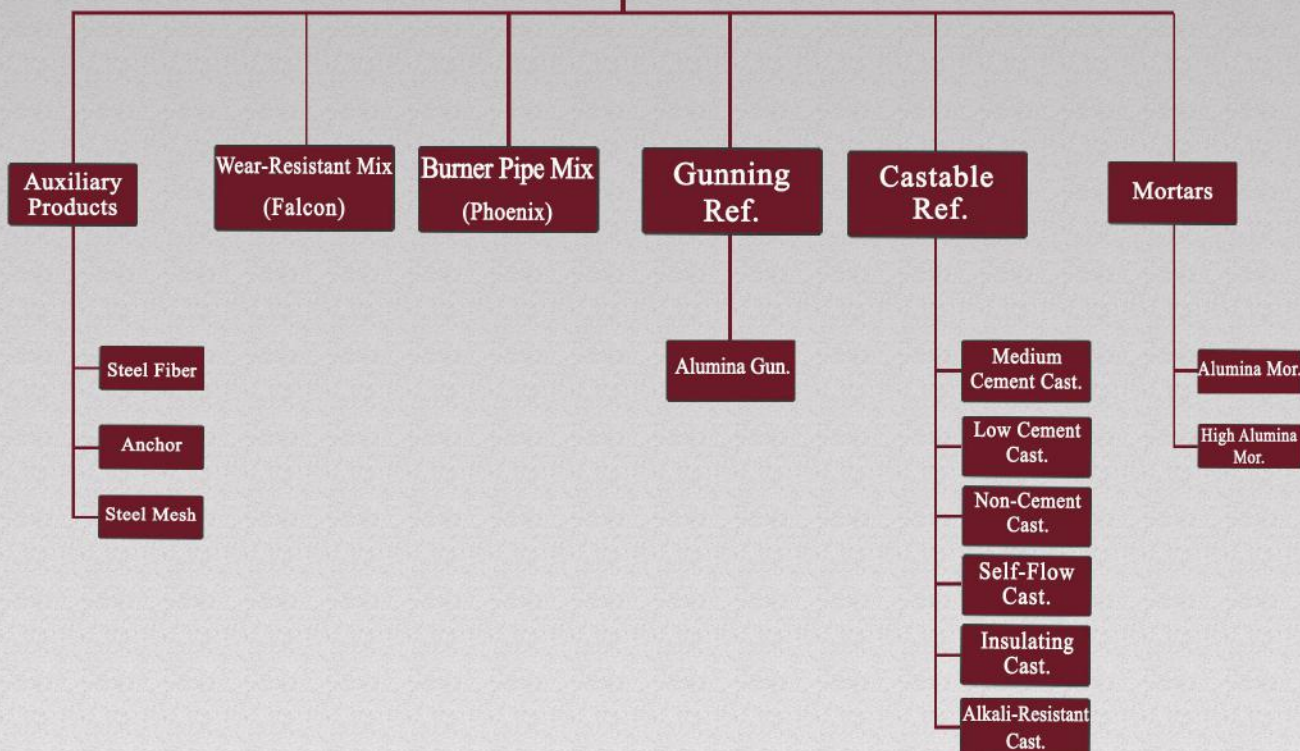
- ۱- تامین نیازهای مواد ویژه دیرگداز جهت صادرات و ارزآوری
- ۲- کاهش واردات محصولات نسوز و جلوگیری از خروج ارز از کشور و حمایت از تولید داخلی
- ۳- ایجاد فضای رقابتی با شرکت‌های مطرح در صنعت نسوز
- ۴- مطالعه و تحقیق جهت دستیابی به دانش فنی فرآورده‌های نسوز جدید و کارآمد مطابق نیاز روزافزون مصرف کنندگان
- ۵- تقویت توان مهندسی شرکت به منظور پاسخگویی و بهبود مستمر کیفیت محصولات
- ۶- طرح توسعه و تکمیل خطوط تولید جهت تولید محصولات خاص

## Objectives

- 1- Supplying the demands of special refractory materials in order to export and help the country's economy.
- 2- Reducing the imported refractory materials to support domestic productions.
- 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.



## Products for the Cement Industry



### Research and Development Center

This 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.

### واحد تحقیق و توسعه شرکت

این واحد با بهره‌گیری از نیروهای متخصص و دانشگاهی و همچنین تجهیزات آزمایشگاهی مجهز در جهت طراحی، مهندسی و توسعه محصولات و فرآیندهای جدید در راستای رفع نیازها و انتظارات مشتریان محترم در صنایع مختلف فعالیت می‌کند.

از وظایف اصلی این واحد بعنوان بخش نوآور سازمان می‌توان به موارد زیر اشاره کرد:

- توسعه محصولات جدید بمنظور تکمیل سبد محصولات شرکت
- بهبود مستمر کیفیت و خواص محصولات در کنار کاهش هزینه‌ها از طریق ارائه فرمولاسیون‌های جدید
- ایجاد ارتباط و تعامل سازنده با مراکز پژوهشی و دانشگاهی بمنظور تبادل اطلاعات علمی و فنی و همچنین حمایت از ایده‌ها و تحقیقات دانشگاهی
- نظارت مستمر بر واحد کنترل کیفی (QC) بمنظور کنترل مواد اولیه ورودی و حصول اطمینان از کیفیت سفارش‌های ارسالی برای مشتریان محترم



## Phoenix (Burner Pipe Refractory Castable)

The burner pipe is a critical area with specific needs because of severe practical conditions, such as high temperature, thermal shock, high abrasion, and chemical attacks, especially the tip of the burner pipe, which is the most vulnerable area. So, the refractory selection for the tip and body of the burner pipe must be highly considered to get the best candidate materials.

Atiq refractories Co., with decades of experience in the cement industry, is one of the leading manufacturers of customized refractory materials for burner pipe in Iran, with different grades based on customers' circumstances.



Grade	Base Raw Material	Type of Product	Max Temp. (°C)	Grain Size (mm)	Description and Application
Phoenix 1000 T	Andalusite	LCC and SFC*	1600	0 - 5	Suitable for severe operating conditions of burner pipe tip lining
Phoenix 2000 T	Bauxite	LCC and SFC	1700	0 - 5	Suitable for severe operating conditions of burner pipe tip lining
Phoenix 3000 T	Alumina	LCC and SFC	1760	0 - 5	Suitable for severe operating conditions of burner pipe tip lining
Phoenix 700 B	Alumina	MCC and LCC	1600	0 - 5	Suitable for medium operating conditions of burner pipe body lining
Phoenix 800 B	Alumina	MCC and LCC	1700	0 - 5	Suitable for medium operating conditions of burner pipe body lining

\* LCC: Low Cement Castable SFC: Self Flow Castable MCC: Medium Cement Castable



## Falcon (High Wear-resistant Mix)

Falcon is a range of chemically bonded Monolithic that provide superior protection against moderate to severe wear of processing parts and equipment in many industries, especially cement, power plant, and steelmaking.

Falcon is available as both low- and high-temperature products based on operating conditions, and could be easily cast, troweled, and sprayed on a wide range of shapes.

All Falcon materials offer unique properties in wear protection:

- High wear resistance
- High thermal resistance
- No vulnerable joints
- Flexibility in installation for different geometries
- Fast and easy installation

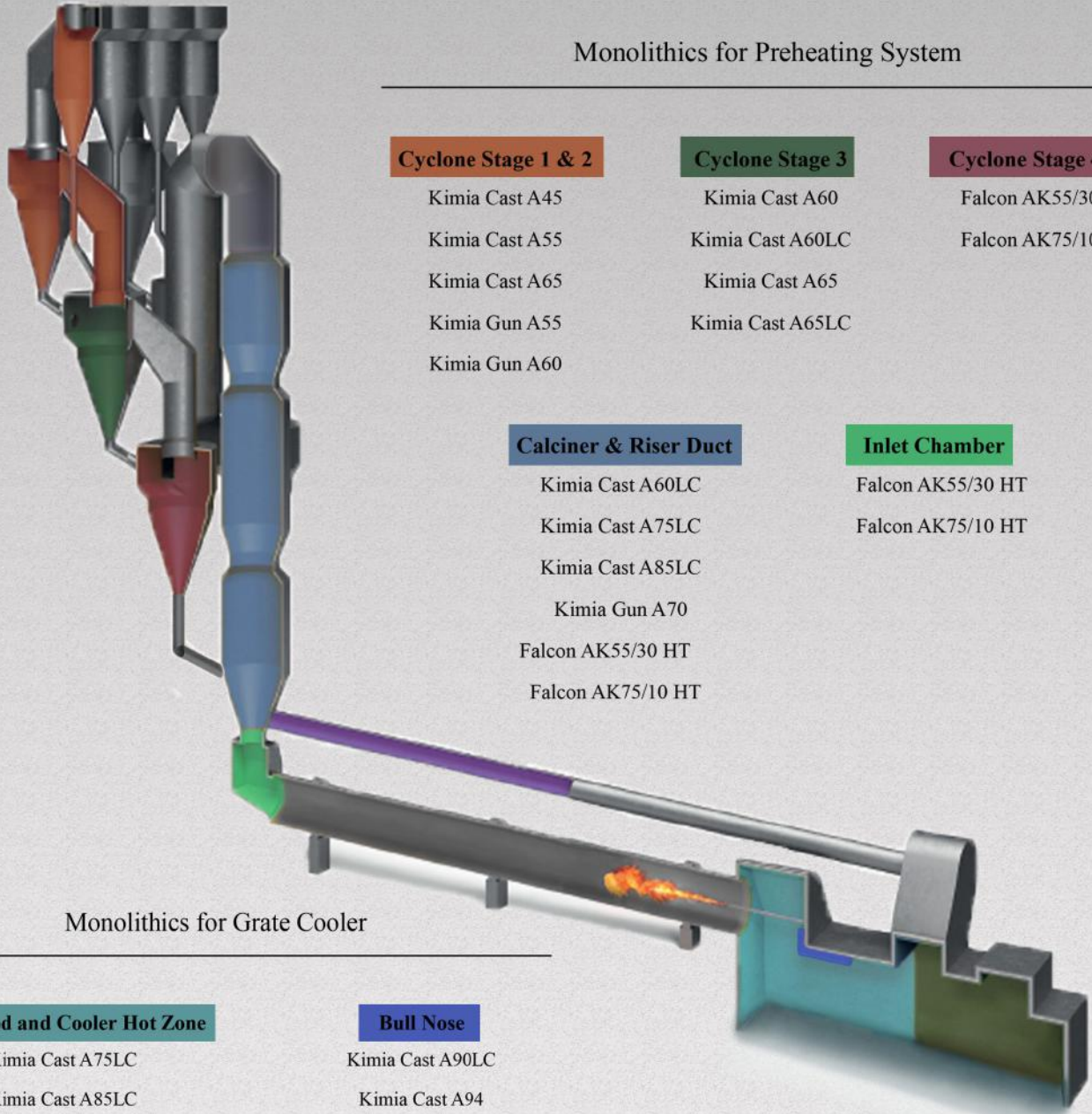
Atiq refractories Co. as a pioneer manufacturer of refractory materials for the cement industry produces the most efficient and reliable Monolithics with high-quality performance for various parts exposed to harsh erosion and wear during the cement production process.



Grade	Chemical Analysis					Temp. Limit of App. °C	C.C.S @ 110 °C kg/cm <sup>2</sup>	Application Method	Grain Size mm	Description & Application
	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	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, applicable for body of mills, ducts, and pipes
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. Applicable for cyclone walls and roofs, cone section, feed pipes, calciner, cooler walls, and kiln inlet zone
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





Monolithics for Preheating System

**Cyclone Stage 1 & 2**

- Kimia Cast A45
- Kimia Cast A55
- Kimia Cast A65
- Kimia Gun A55
- Kimia Gun A60

**Cyclone Stage 3**

- Kimia Cast A60
- Kimia Cast A60LC
- Kimia Cast A65
- Kimia Cast A65LC

**Cyclone Stage 4 & 5**

- Falcon AK55/30 HT
- Falcon AK75/10 HT

**Calciner & Riser Duct**

- Kimia Cast A60LC
- Kimia Cast A75LC
- Kimia Cast A85LC
- Kimia Gun A70
- Falcon AK55/30 HT
- Falcon AK75/10 HT

**Inlet Chamber**

- Falcon AK55/30 HT
- Falcon AK75/10 HT

Monolithics for Grate Cooler

**Kiln Hood and Cooler Hot Zone**

- Kimia Cast A75LC
- Kimia Cast A85LC
- Kimia Gun A70
- Falcon AK75/10 HT

**Bull Nose**

- Kimia Cast A90LC
- Kimia Cast A94
- Kimia Cast A94LC
- Falcon AK55/30 HT
- Falcon AK75/10 HT

**Tertiary Air Duct**

- Kimia Cast A65LC
- Kimia Cast A75
- Kimia Cast A75LC
- Kimia Gun A60

**Cooler Cold Zone**

- Kimia Cast A65
- Kimia Cast A65 LC
- Kimia Cast A75
- Kimia Gun A75LC
- Kimia Gun A60

**Insulating back-up lining for all areas**

- Kimia Cast A40 LI
- Kimia Gun A40 LI



## Refractory Castables and Gunnings

Grade	Chemical Analysis			Temp. Limit of App.	C.C.S @ 1300 °C	Mixing water	B.D	Application Method	Grain Size
	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO						
	Min%	Max%	Max%	°C	kg/cm <sup>2</sup>	l/100 kg	g/cm <sup>3</sup>	mm	
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

Get in touch with our specialists to find the best solutions based on your needs.

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