



IRAN REFRACTORIES CO. (IREFCO)

Iran Refractories Company (IREFCO) was established in 1972 to provide refractories for growing industries in Iran.

The nominal capacity of the factory is 90,000 tons of refractory products per year. Manufacture of special materials lines with high capacity with using modern equipment and the latest technology world has implemented and by tapping them, produce a very wide range of refractory productions and make them available to the Industries.

Irefco is one of the few plants in the world producing fireclay, high alumina and basic bricks as well as monolithic in all categories such as: mortars, castables, gunning and ramming mixes, plastics and grain sized materials which are producing with filling bags lines.

Iran Refractories Co. with more than two decades of using a quality management system based on standards ISO 9001, in the first self-assessment process based on the EFQM (business excellence Quality models) in 2007 was received the certificate of commitment to excellence.

The company for using of better management systems, to improve the quality level of activities and its responsibilities in industrial sustainable development, the certificate Integrated Management System (IMS) standards including ISO9001, ISO14001, OHSAS18001 has received

Equipments:

Iran refractories equipment is include:

A) Three rotary kilns to 1- Calcine the fire clay with a capacity of 16,000 tons of fire clay and bauxite per year and 2- Calcine the dolomite with a capacity of 11,000 tons per year and 3- dead burned dolomite with a capacity of 26,000 tons per year.

B) crushers include:

a-b) Jaw crusher, two device

b-b) Impact crusher, five devices

c-b) Hammer mill, a device

d-b) Ball mill, four devices

e-b) Vibration mill, five devices

C) Equipment for shaping include:

e-a) mechanical Toggle presses 800-ton (Boyd - America) Three devices

e-b) hydraulic mechanical press 1,200-ton (US - Krasly) Three devices

e-c) hydraulic presses 1250-ton (Hurn - Germany) Three devices

e-f) hydraulic toggle presses 800-ton (Hurn - Germany).

e-g) hydraulic press 1600-ton (Bukher - Germany).

e-h) hydraulic press 2,000-ton (Sacmi - Italy).

e-i) hydraulic press 1600-ton (Lies - Germany).

The main industries using IREFCO products are:

Iron and steel, Cement, Aluminum, Copper, Foundry, Glass, Tile and, Ceramic, Plaster, Oil and petrochemicals and all others having high temperature process.

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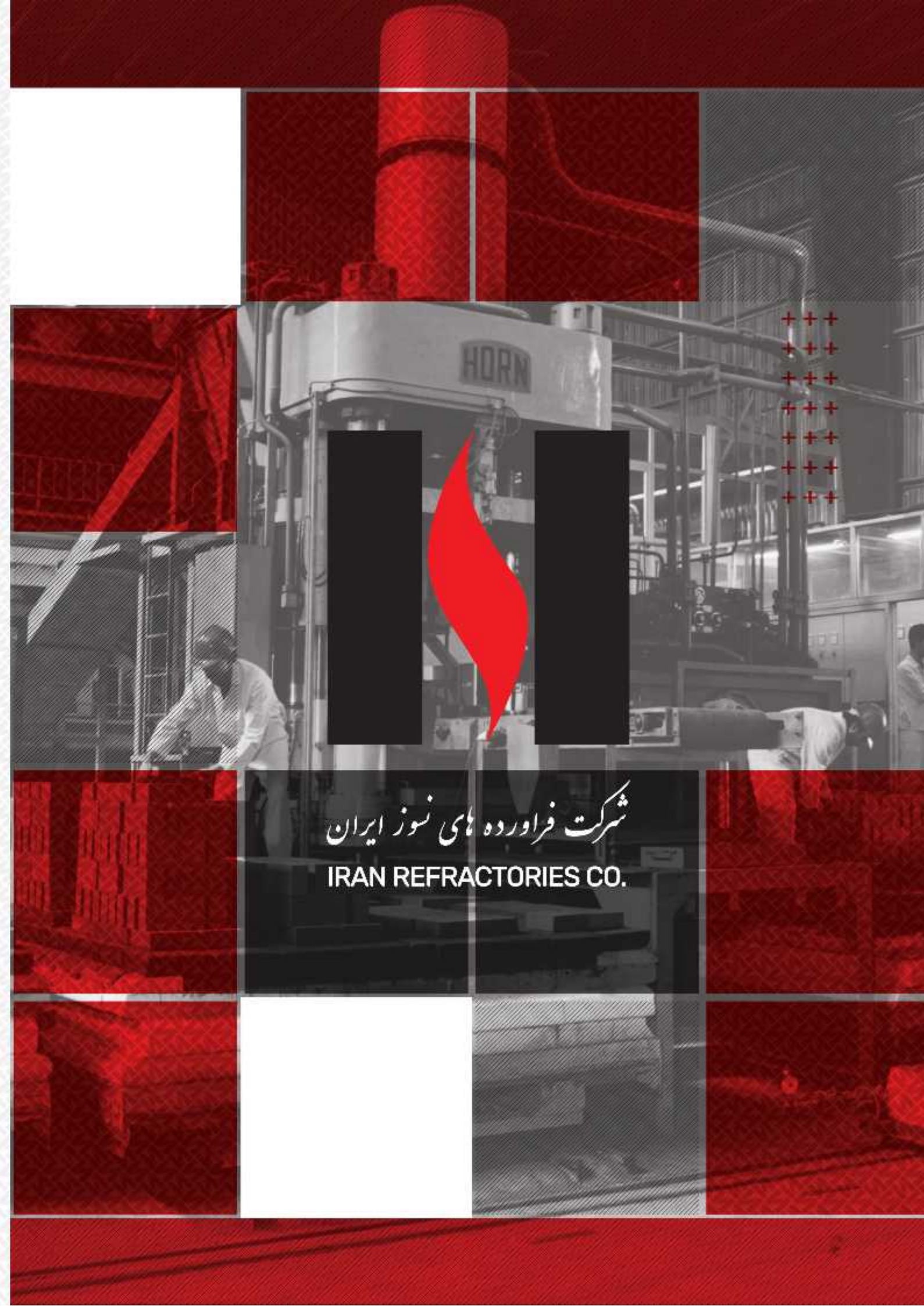
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شرکت فراورده های نوز ایران
IRAN REFRACTORIES CO.



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ALUMO

Mullite is the most stable middle phase in Alumina – silica system.

Mullite phase is the main part of aluminosilicate refractories and mullite with high purity has been achieved extensive applications in the recent years.

Temperature stability and refractoriness property of mullite in some special industrial applications is even higher than corundum phase.

This wonderful product can be produced in different types and used in various industries with excellent resistance to high temperature, thermal shocks, abrasion, corrosion and chemical attacks. Especially suitable for reduction environments, iron ore pelletizing sites, some areas of cement kilns, oil, gas, refining and petrochemical industries, glass industries, lime rotary kiln etc.



Brand Name	Chemical Composition		Physical and mechanical Properties		Thermal properties	
ALUMO	Al ₂ O ₃ %	> 47	B.D	2.30-2.40 gr/cm ³	P.C.E	at 1743 °C > 33
	SiO ₂ %	< 50	C.C.S	> 700 kg/cm ²	R.U.L(T0.5)	1380-1430°C
	Fe ₂ O ₃ %	< 1.7	A.P	14-18%	Reversible Linear thermal expansion	at 1400 °C = 0.8%
			M.O.R	80-120 kg/cm ²		
ALUMO LI	Al ₂ O ₃ %	> 47	B.D	2.30-2.40 gr/cm ³	P.C.E	at 1743 °C > 33
	SiO ₂ %	< 50	C.C.S	> 800 kg/cm ²	R.U.L(T0.5)	1430°C - 1450
	Fe ₂ O ₃ %	< 1	A.P	<15 %	Reversible Linear thermal expansion	at 1400 °C = 0.8%
			M.O.R	80-150 kg/cm ²		
ALUMO 60 LI	Al ₂ O ₃ %	> 58	B.D	2.37 gr/cm ³	P.C.E	at 1743 °C > 33
	SiO ₂ %	< 38	C.C.S	> 700 kg/cm ²	R.U.L(T0.5)	1430°C - 1470
	Fe ₂ O ₃ %	< 1.2	A.P	14-18 %	Reversible Linear thermal expansion	% at 1100 °C = 1.0
			M.O.R	>80 kg/cm ²		
ALUMO 70 LI	Al ₂ O ₃ %	64-66	B.D	>2.58 gr/cm ³	P.C.E	at 1835 °C > 38
	SiO ₂ %	28-32	C.C.S	> 750 kg/cm ²	R.U.L(T0.5)	1450°C - 1500
	Fe ₂ O ₃ %	<1.2	A.P	14-18 %	Reversible Linear thermal expansion	at 1100 °C = 0.6-0.9%
			M.O.R	>100 kg/cm ²		
ALUMO 85 LI	Al ₂ O ₃ %	84-86	B.D	>2.8 gr/cm ³	P.C.E	at 1885 °C > 40
	SiO ₂ %	13-15	C.C.S	> 800 kg/cm ²	R.U.L(T0.5)	Min 1600°C
	Fe ₂ O ₃ %	<1.2	A.P	<18 %	Reversible Linear thermal expansion	at 1100 °C = 0.5-0.8%
			M.O.R	>100 kg/cm ²		