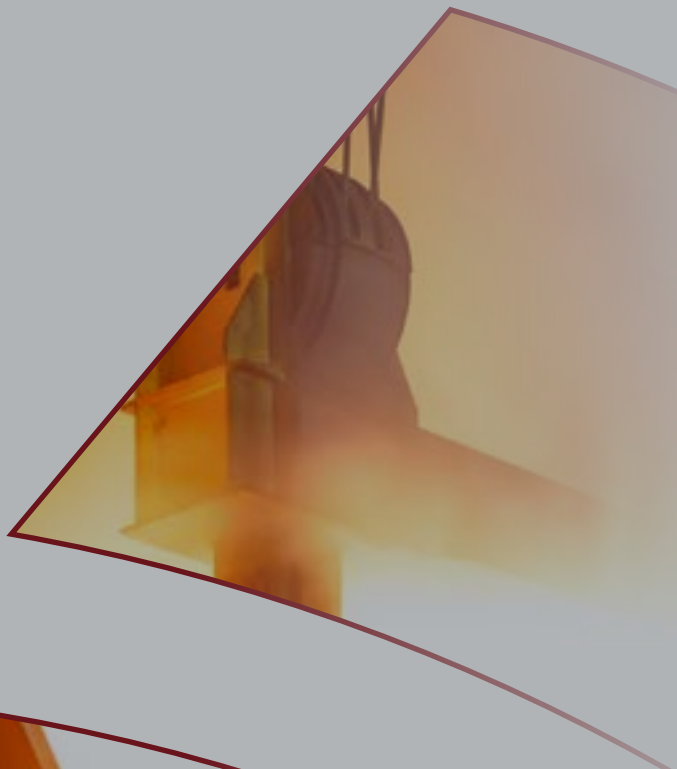




شرکت معدنی و صنعتی
سوراوجین عقیق
SURAVAJIN AGHIGH
Mining & Industrial Co.



تولید کننده انواع فرآورده های نسوز









شرکت معدنی و صنعتی سورا وجین عقیق

فعالیت‌های شرکت:

- تولید انواع شاموت و بوکسیت کلسینه، ملات‌ها و جرم‌های نسوز شاموتی و آلومینایی و قطعات پیش ساخته نسوز
- استخراج و فرآوری انواع خاک‌های صنعتی، کائولن، بنتونیت، فلدسپار، بال‌کلی، آرژیلیت و بوکسیت نسوز از معادن متعلق به شرکت

تحقیق و توسعه:

با حضور کارشناسان و محققان زبده و متخصص و وجود آزمایشگاه‌های مجهز مواد دیرگداز، سرامیک و شیمی و اجرای پروژه‌های تحقیقاتی و اکتشافی مستمر به منظور تحقق اهداف مرتبط، این واحد جایگاه ویژه‌ای در شرکت دارد.

سایت‌های شرکت:

- واحد تولید شاموت، جرم‌های نسوز و قطعات پیش ساخته نسوز واقع در نطنز، استان اصفهان
- واحد تولیدی و فرآوری بال‌کلی و خاک نسوز واقع در رباط خان طبس، استان خراسان جنوبی
- واحد تولیدی معدنی خاک‌های صنعتی، فلدسپار، کائولن و بنتونیت واقع در بوئین زهرا، استان قزوین

شرکت و مشتریان:

تنوع تولید و کیفیت بالای محصول از طرفی و پاسخگو بودن به مشتری، وجود مشتریان وفادار و کسب اعتماد مشتری از طرف دیگر، فرصت‌ها و سرمایه ارزشمندی را برای شرکت فراهم نموده است.

داشتن گواهینامه‌های تحقیق و توسعه و پروانه پژوهش، گواهینامه سیستم مدیریت کیفیت آزمایشگاه بر اساس ISO/IEC 17025:2017، سیستم مدیریت کیفیت ISO 9001: 2015، سیستم مدیریت محیط زیست ISO 14001: 2015، سیستم مدیریت ایمنی و بهداشت شغلی ISO 45001: 2018، دریافت ده‌ها لوح تقدیر به عنوان تولیدکننده برتر و نمونه کشوری و استانی از دستاوردهای شرکت به شمار می‌رود. اولویت دادن به سرمایه انسانی، التزام به رعایت پروتکل‌های بهداشتی، ایمنی و زیست محیطی (HSE) و ایفای وظایف در حوزه مسئولیت‌های اجتماعی، حضور فعال در تشکل‌های صنفی، تخصصی و علمی از اصول مهم خط مشی شرکت می‌باشد.

صنایع مصرف کننده:

- صنایع فولاد، فلزات غیرآهنی، ریخته‌گری، سیمان، شیشه، پالایشگاهی، پتروشیمی و ...
- کارخانجات تولید آجر و جرم‌های شاموتی و آلومینایی
- کارخانجات کاشی و سرامیک، چینی بهداشتی، مقره‌سازی و آجر نمای نسوز

محصولات

محصولات نسوز مورد مصرف در صنایع فولاد، فلزات غیر آهنی (مس، آلومینیوم)، غیر فلزی (سیمان، شیشه و بلور، سرامیک)، پالایشگاهی و مواد اولیه صنعت نسوز

- انواع جرم‌های ریختنی ویریه شونده و خود جاری شونده پرسیمان (RC)، سیمان متوسط (MC)، کم سیمان (LCC)، خلی کم سیمان (ULCC) از ۴۵ تا ۹۵% آلومینا
- انواع جرم‌های ریختنی عایق با دانسیته‌های مختلف
- انواع جرم‌های کوبیدنی، تعمیری، پاشیدنی، پوششی
- انواع جرم‌های مونولیتیک لایه ایمنی پاتیل
- انواع ملات‌های ویژه نسوز در گریدهای مختلف
- انواع جرم‌های پلاستیک، جرم‌های ویژه ضد سایش
- انواع جرم‌های نسوز مورد مصرف در کوره بلند (جرمها و پلاست‌های نسوز مصرفی در وان اصلی، جوی چدن، جوی سرباره، مجرای تخلیه مذاب، لایه ایمنی پاتیل)
- قطعات پیش ساخته نسوز
- بوکسیت کلسینه شده طبس
- شاموت طبس
- شاموت سمیرم
- انواع خاک‌های نسوز چسبنده



Suravajin Aghigh Mining & Industrial Company was established in 2003.

Company activities field:

- Exploitation and processing of various types of Illitic clay, Feldspar, Ball clay, Argillite, refractory grade bauxite from mines owned by the company.
- Production of various type of chamotte and calcined bauxite, chamotte and alumina refractory castable and mortars

Company production sites:

- **Natanz production site:** Chamotte, refractory castables and pre-cast parts production site is located in Isfahan province.
- **Robat e Khan site:** Ball clay and Fire clay mining and processing site in Rabat Khan Tabas is located in South Khorasan province
- **Boin Zahra site:** Mineral production unit of industrial soils, feldspar, kaolin and bentonite Buin Zahra is located in Qazvin province.

Consumer industries:

- Iron and Steel industries, non-ferrous metals, foundry, cement, Glass, refinery, petrochemical industries.
- Chamotte and Alumina Refractory castables and bricks production industries.
- Tile and Ceramic, Sanitary Ware, Electrical Insulator and refractory facade bricks industries.

Products

Refractory products for Steel, Non-ferrous metals (Copper, Aluminium), Non-metallic (Cement, Glass, Ceramic), Refinery & Raw materials for refractory industry

- Different types of self-flow and vibration refractory castables (RC, MC, LCC, ULCC 45 – 95 % Al₂O₃)
- Different types of insulation castables with different density
- Different types of Ramming, Troweling, Gunning and Coating mass
- Monolithic castable for ladle
- Different types of refractory mortars
- Different types of Plastic, Abrasion resistance mass
- The kinds of refractory mass used in blast furnace (main trough, main runner cast iron line, main runner slag line, Taphole, Refractory mass for safety lining in steel ladle)
- Pre – Shaped refractory Parts
- Tabas Calcined Bauxite
- Tabas chamotte
- Semirom chamotte
- Ball Clays for refractory

Research and development:

With presence of Researchers and Experts and existence of the ceramic and refractory materials laboratories and also chemistry laboratory furthermore, carrying out continuous research and exploration projects in order to achieve related goals, this unit has a special place in this company.

Company and its customers:

The variety and high quality of the products on the one hand, and being responsive to the customers, the existence of loyal customers and gaining the trust of them on the other hand, have provided valuable opportunities and capital for the company.

Obtaining research and development certification and research license, laboratory quality management system certificate based on ISO/IEC 17025:2017, quality management system ISO 9001: 2015, environmental management system ISO 14001: 2015, occupational health and safety management system ISO 45001: In 2018, receiving many appreciation certificates as the best producer and national and provincial is one of the company's achievements.

Giving priority to human resources, adhering to the health, safety and environmental (HSE) protocols and performing duties in the field of social responsibility, active presence in trade unions, professional and scientific committees and organizations are important principles of the company's policy.





Regular Cement refractories Castables

جرم های ریختنی پر سیمان نسوز

Products	Chemical Analysis (%wt)				Main Component	Application Method	Refractoriness (° C)	Required Water (%)	Grain Size (mm)	Bulk Density At 110 ° C (gr/cm ³)	C.C.S (Kg/cm ²)	
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO							110 °C	1100 °C
SURA CAST 45 RC	44±2	38±2	5.5±1	9±1	Chamotte	Casting, Vibrating	1450	13 – 15	0 – 5	2.2±0.1	250 – 450	200 – 400
SURA CAST 45 RC - LI	45±2	38±2	2±0.5	10±1	Chamotte	Casting, Vibrating	1450	12 – 14	0 – 5	2.2±0.1	350 – 550	300 – 500
SURA CAST 50 RC - I	50±2	40±2	1.5±0.5	4±0.5	Chamotte	Casting, Vibrating	1550	8 – 10	0 – 5	2.3±0.1	400 – 600	400 – 600
SURA CAST 50 RC - II	50±2	30±2	2.5±0.5	8±1	Chamotte	Casting, Vibrating	1500	9 – 11	0 – 5	2.3±0.1	300 – 500	250 – 450
SURA CAST H	50±2	42±2	2±0.5	3.5±0.5	Chamotte	Casting, Vibrating	1550	8 – 10	0 – 5	2.3±0.1	500 – 700	300 – 500
SURA CAST 55 RC - I	55±2	30±2	2±0.5	4.5±0.5	Bauxite, Chamotte	Casting, Vibrating	1550	8 – 10	0 – 5	2.4±0.1	400 – 600	350 – 550
SURA CAST 55 RC - II	55±2	26±2	2.5±0.5	8±1	Bauxite, Chamotte	Casting, Vibrating	1550	10 – 12	0 – 5	2.4±0.1	350 – 550	300 – 500
SURA CAST 60 RC	60±2	29±2	2±0.5	4±0.5	Bauxite, Chamotte	Casting, Vibrating	1600	8.5 – 10.5	0 – 5	2.5±0.1	450 – 650	400 – 600
SURA CAST 65 RC	65±2	27±2	1.5±0.5	4±0.5	Bauxite, Chamotte	Casting, Vibrating	1650	8.5 – 10.5	0 – 5	2.55±0.1	450 – 650	400 – 600
SURA CAST 70 RC	70±2	23±2	1.5±0.5	4±0.5	Bauxite, Chamotte	Casting, Vibrating	1700	8 – 10	0 – 5	2.6±0.1	500 – 700	450 – 650
SURA CAST 75 RC	75±2	18±1	1.5±0.5	4±0.5	Bauxite	Casting, Vibrating	1730	8 – 10	0 – 5	2.65±0.1	500 – 700	450 – 650
SURA CAST 80 RC	80±2	13±1	1.5±0.5	4±0.5	Bauxite	Casting, Vibrating	>1730	7 – 9	0 – 5	2.75±0.1	550 – 750	450 – 650
SURA CAST 85 RC	85±2	8±1	1±0.5	3.5±0.5	Tabular, Bauxite	Casting, Vibrating	>1730	7 – 9	0 – 5	2.8±0.1	600 – 800	450 – 650
SURA CAST 90 RC	90±2	5±0.5	<1	3.5±0.5	Tabular, Bauxite	Casting, Vibrating	>1800	7 – 9	0 – 5	2.85±0.1	650 – 850	500 – 700
SURA CAST 92 RC	92±2	4±0.5	<0.8	3.5±0.5	Tabular, Bauxite	Casting, Vibrating	>1800	7 – 9	0 – 5	2.9±0.1	700 – 900	600 – 800
SURA CAST 94 RC	94±1	2.5±0.5	<0.5	3.5±0.5	Tabular Alumina	Casting, Vibrating	>1800	7 – 9	0 – 5	2.9±0.1	750 – 950	650 – 850
SURA CAST 95 RC	95±1	2±0.5	<0.3	3.5±0.5	Tabular Alumina	Casting, Vibrating	>1800	7 – 9	0 – 5	3±0.1	750 – 950	650 – 850
SURA CAST 96 RC	96±1	1±0.3	<0.2	3.5±0.5	Tabular Alumina	Casting, Vibrating	>1800	5.5 – 7	0 – 5	3.1±0.1	800 – 1000	700 – 900
Standards	ISO 21587-2						ISO 825 ,1146	ASTM C860		ASTM C20	ASTM C133	

Medium Cement refractories Castables

جرم های ریختنی سیمان متوسط نسوز

Products	Chemical Analysis (%wt)				Main Component	Application Method	Refractoriness (° C)	Required Water (%)	Grain Size (mm)	Bulk Density At 110 ° C (gr/cm ³)	C.C.S (Kg/cm ²)	
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO							110 ° C	1100 ° C
SURA CAST 50 MC	50±2	43±2	2±0.5	3±0.5	Chamotte	Casting, Vibrating	1550	8.5 – 10	0 – 5	2.35±0.1	350 – 550	350 – 550
SURA CAST 55 MC	50±2	40±2	2±0.5	3±0.5	Chamotte	Casting, Vibrating	1600	8 – 9.5	0 – 5	2.4±0.1	400 – 600	400 – 600
SURA CAST 60 MC	60±2	32±2	2±0.5	3±0.5	Bauxite, Chamotte	Casting, Vibrating	1650	7.5 – 9	0 – 5	2.5±0.1	450 – 650	450 – 650
SURA CAST 65 MC	65±2	29±2	1.5±0.5	3±0.5	Bauxite, Chamotte	Casting, Vibrating	1680	7.5 – 9	0 – 5	2.6±0.1	450 – 650	450 – 650
SURA CAST 70 MC	70±2	24±2	1.5±0.5	3±0.5	Bauxite, Chamotte	Casting, Vibrating	1700	7 – 8.5	0 – 5	2.7±0.1	500 – 700	500 – 700
SURA CAST 75 MC	75±2	18±1	1.5±0.5	3±0.5	Bauxite	Casting, Vibrating	1730	7 – 8.5	0 – 5	2.75±0.1	500 – 700	500 – 700
SURA CAST 80 MC	80±2	14±1	1.5±0.5	3±0.5	Bauxite	Casting, Vibrating	>1730	6.5 – 8	0 – 5	2.8±0.1	550 – 750	550 – 700
SURA CAST 85 MC	85±2	9±1	1.5±0.5	2.5±0.5	Tabular, Bauxite	Casting, Vibrating	>1730	6.5 – 8	0 – 5	2.8±0.1	550 – 750	550 – 750
SURA CAST 90 MC	88±2	6±0.5	< 1	2.5±0.5	Tabular, Bauxite	Casting, Vibrating	>1800	6 – 7.5	0 – 5	2.85±0.1	600 – 800	600 – 800
SURA CAST 92 MC	92±2	5±0.5	< 0.8	2.5±0.5	Tabular, Bauxite	Casting, Vibrating	>1800	6 – 7.5	0 – 5	2.9±0.1	600 – 800	600 – 800
SURA CAST 94 MC	94±1	3±0.5	< 0.5	2.5±0.5	Tabular Alumina	Casting, Vibrating	>1800	5.5 – 7	0 – 5	2.95±0.1	700 – 900	700 – 900
Standards	ISO 21587-2						ISO 825 ,1146	ASTM C860		ASTM C20	ASTM C133	





Low Cement refractories Castables

جرم های ریختنی کم سیمان نسوز

Products	Chemical Analysis (%wt)				Main Component	Application Method	Refractoriness (° C)	Required Water (%)	Grain Size (mm)	Bulk Density At 110 ° C (gr/cm ³)	C.C.S (Kg/cm ²)	
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO							110 °C	1100 °C
SURA CAST 50 LC	50±2	43±2	1.5±0.5	2.5±0.5	Chamotte	Casting, Vibrating	1550	9 – 10.5	0 – 5	2.35±0.1	300 – 500	350 – 550
SURA CAST 55 LC	55±2	39±2	1.5±0.5	2.5±0.5	Chamotte	Casting, Vibrating	1600	8.5 – 10	0 – 5	2.4±0.1	350 – 550	400 – 600
SURA CAST 60 LC	60±2	33±2	1.5±0.5	2.5±0.5	Bauxite, Chamotte	Casting, Vibrating	1650	8 – 9.5	0 – 5	2.5±0.1	400 – 600	450 – 650
SURA CAST 65 LC	65±2	28±2	1.5±0.5	2.5±0.5	Bauxite, Chamotte	Casting, Vibrating	1680	8 – 9.5	0 – 5	2.5±0.1	450 – 650	500 – 700
SURA CAST 70 LC	70±2	23±2	1.5±0.5	2.5±0.5	Bauxite, Chamotte	Casting, Vibrating	1700	7.5 – 9	0 – 5	2.7±0.1	500 – 700	550 – 750
SURA CAST 70 LC-T.A	70±2	24±2	1.5±0.5	2.5±0.5	Tabular, Andalusite	Casting, Vibrating	1700	7.5 – 9	0 – 5	2.7±0.1	450 – 650	500 – 700
SURA CAST 75 LC	75±2	18±1	1.5±0.5	2.5±0.5	Bauxite	Casting, Vibrating	1730	7.5 – 9	0 – 5	2.75±0.1	550 – 750	600 – 800
SURA CAST 75 LC-T.A	75±2	20±2	1±0.5	2.5±0.5	Tabular, Andalusite	Casting, Vibrating	1730	7.5 – 9	0 – 5	2.75±0.1	500 – 700	550 – 750
SURA CAST 80 LC	80±2	14±1	1.5±0.5	2.5±0.5	Bauxite	Casting, Vibrating	>1730	7 – 8.5	0 – 5	2.8±0.1	650 – 850	700 – 900
SURA CAST 80 LC-T.A	80±2	18±1	< 0.6	2±0.5	Tabular, Andalusite	Casting, Vibrating	>1730	7 – 8.5	0 – 5	2.8±0.1	600 – 800	650 – 850
SURA CAST 85 LC	85±2	8±1	1±0.5	2±0.5	Tabular, Bauxite	Casting, Vibrating	>1730	6.5 – 8	0 – 5	2.85±0.1	700 – 900	750 – 950
SURA CAST 85 LC-T.A	85±2	14±1	< 0.5	2±0.5	Tabular, Andalusite	Casting, Vibrating	>1730	6.5 – 8	0 – 5	2.85±0.1	650 – 850	700 – 900
SURA CAST 90 LC	90±2	6±0.5	< 1	2±0.5	Tabular, Bauxite	Casting, Vibrating	>1800	6 – 7.5	0 – 5	2.9±0.1	700 – 900	750 – 950
SURA CAST 92 LC	92±2	5±0.5	< 0.8	2±0.5	Tabular, Bauxite	Casting, Vibrating	>1800	5.5 – 7	0 – 5	2.9±0.1	750 – 950	800 – 1000
SURA CAST 94 LC	94±1	4±0.5	< 0.5	2±0.5	Tabular Alumina	Casting, Vibrating	>1800	5.5 – 7	0 – 5	2.95±0.1	750 – 950	800 – 1000
SURA CAST 95 LC	95±1	3±0.5	< 0.2	2±0.5	Tabular Alumina	Casting, Vibrating	>1800	5.5 – 7	0 – 5	3±0.1	750 – 950	800 – 1000
SURA CAST 96 LC	96±1	2±0.5	< 0.2	2±0.5	Tabular Alumina	Casting, Vibrating	>1800	5.5 – 7	0 – 5	3±0.1	800 – 1000	850 – 1050
SURA CAST 97 LC	97±1	< 1	< 0.2	2±0.5	Tabular Alumina	Casting, Vibrating	>1800	5 – 6.5	0 – 5	3.1±0.1	800 – 1000	850 – 1050
Standards	ISO 21587-2						ISO 825 ,1146	ASTM C860		ASTM C20	ASTM C133	





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- ☐ SURA CAST 40
- ☒ SURA CAST 45 - 12
- ☐ SURA CAST 50 - 1
- ☐ SURA CAST 50 - 2
- ☐ SURA CAST H
- ☐ SURA CAST 55 - 1
- ☐ SURA CAST 55 - 2
- ☐ SURA CAST 60
- ☐ SURA CAST 65
- ☐ SURA CAST 70
- ☐ SURA CAST 80
- ☐ SURA CAST 85
- ☐ SURA CAST 90
- ☐ SURA CAST 95



Ultra-Low Cement refractories Castables

جرم های ریختنی فوق کم سیمان نسوز

Products	Chemical Analysis (%wt)				Main Component	Application Method	Refractoriness (° C)	Required Water (%)	Grain Size (mm)	Bulk Density At 110 ° C (gr/cm ³)	C.C.S (Kg/cm ²)	
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO							110 °C	1100 °C
Sura Cast 60 ULC	60±2	33±2	1.5±0.5	1.5±0.5	Bauxite, Chamotte	Casting, Vibrating	1650	6 – 7.5	0 – 5	2.5±0.1	180 – 480	400 – 700
Sura Cast 65 ULC	65±2	29±2	1.5±0.5	1.5±0.5	Bauxite, Chamotte	Casting, Vibrating	1680	6 – 7.5	0 – 5	2.6±0.1	180 – 480	400 – 700
Sura Cast 70 ULC	70±2	24±2	1.5±0.5	1.5±0.5	Bauxite, Chamotte	Casting, Vibrating	1700	5.5 – 7	0 – 5	2.7±0.1	200 – 500	450 – 750
Sura Cast 75 ULC	75±2	19±1	1.5±0.5	1.5±0.5	Bauxite, Chamotte	Casting, Vibrating	1730	5.5 – 7	0 – 5	2.75±0.1	250 – 550	450 – 750
Sura Cast 80 ULC	80±2	14±1	1.5±0.5	1.5±0.5	Bauxite	Casting, Vibrating	>1730	5 – 6.5	0 – 5	2.8±0.1	250 – 550	500 – 800
Sura Cast 85 ULC	85±2	10±1	1.5±0.5	1.5±0.5	Tabular, Bauxite	Casting, Vibrating	>1730	5 – 6.5	0 – 5	2.85±0.1	300 – 600	500 – 800
Sura Cast 90 ULC	90±2	6.5±0.5	< 1.2	1±0.5	Tabular, Bauxite	Casting, Vibrating	>1800	4.5 – 6	0 – 5	2.9±0.1	350 – 650	600 – 900
Sura Cast 95 ULC	95±1	3.5±0.5	< 0.5	1±0.5	Tabular Alumina	Casting, Vibrating	>1800	4.5 – 6	0 – 5	3±0.1	400 – 750	600 – 900
Standards	ISO 21587-2						ISO 825 ,1146	ASTM C860		ASTM C20	ASTM C133	



Self-Flow refractories Castables

جرم های ریختنی خود جاری شونده نسوز

Products	Chemical Analysis (%wt)				Main Component	Application Method	Refractoriness (° C)	Required Water (%)	Grain Size (mm)	Bulk Density At 110 ° C (gr/cm ³)	C.C.S (Kg/cm ²)	
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO							110 °C	1100 °C
Sura Cast 60 SFC	60±2	34±2	1.5±0.5	2.5±0.5	Bauxite, Chamotte	Casting, Vibrating	1650	6.5 – 8	0 – 5	2.5±0.1	350 – 650	400 – 700
Sura Cast 65 SFC	65±2	27±2	1.5±0.5	2.5±0.5	Bauxite, Chamotte	Casting, Vibrating	1680	6.5 – 8	0 – 5	2.6±0.1	350 – 650	450 – 750
Sura Cast 70 SFC	70±2	22±2	1.5±0.5	2.5±0.5	Bauxite, Chamotte	Casting, Vibrating	1700	6 – 7.5	0 – 5	2.7±0.1	400 – 700	550 – 850
Sura Cast 75 SFC	75±2	18±1	1.5±0.5	2.5±0.5	Bauxite, Chamotte	Casting, Vibrating	1730	6 – 7.5	0 – 5	2.75±0.1	450 – 750	550 – 850
Sura Cast 80 SFC	80±2	14±1	1.5±0.5	2±0.5	Bauxite	Casting, Vibrating	>1730	5.5 – 7	0 – 5	2.8±0.1	500 – 800	600 – 900
Sura Cast 85 SFC	85±2	9±1	1.5±0.5	2±0.5	Tabular, Bauxite	Casting, Vibrating	>1730	5.5 – 7	0 – 5	2.85±0.1	500 – 800	650 – 950
Sura Cast 90 SFC	90±2	6.5±0.5	< 1	2±0.5	Tabular, Bauxite	Casting, Vibrating	>1800	5 – 6.5	0 – 5	2.9±0.1	550 – 850	700 – 1000
Sura Cast 95 SFC	95±1	3±0.5	< 0.2	1.5±0.5	Tabular Alumina	Casting, Vibrating	>1800	5 – 6.5	0 – 5	3±0.1	600 – 900	750 – 1050
Standards	ISO 21587-2						ISO 825 ,1146	ASTM C860		ASTM C20	ASTM C133	





Insulating Refractories Castables

جرم های ریختنی عایق نسوز

Products	Chemical Analysis (%wt)				Main Component	Application Method	Refractoriness (° C)	Required Water (%)	Grain Size (mm)	Bulk Density At 110 ° C (gr/cm ³)	C.C.S (Kg/cm ²)	
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO							110 °C	1100 °C
SURA LIGHT 800	36±2	44±2	1.5±0.5	16±1	Light weight aggregate	Casting, Vibrating, Gunning	1100	45 – 55	0 – 3 0 – 5	0.8±0.1	15 – 30	15 – 30
SURA LIGHT 900	33±2	48±2	6±0.5	12±1	Light weight aggregate	Casting, Vibrating, Gunning	1100	45 – 55	0 – 3 0 – 5	0.9±0.1	15 – 30	15 – 30
SURA LIGHT 1000	35±2	44±2	6.5±1	9.5±1	Light weight aggregate	Casting, Vibrating, Gunning	1100	30 – 35	0 – 3 0 – 5	1±0.1	15 – 30	15 – 30
SURA LIGHT 1000-LI	38±2	42±2	2±0.5	8.5±1	Light weight aggregate	Casting, Vibrating, Gunning	1100	30 – 35	0 – 3 0 – 5	1±0.1	15 – 30	15 – 30
SURA LIGHT 1100	38±2	34±2	7.5±0.5	14±1	Light weight aggregate	Casting, Vibrating, Gunning	1250	30 – 35	0 – 3 0 – 5	1.1±0.1	>40	>30
SURA LIGHT 1250	36±2	40±2	6.5±0.5	9.5±1	Light weight aggregate	Casting, Vibrating, Gunning	1200	25 – 30	0 – 3 0 – 5	1.25±0.1	20 – 40	30 – 50
SURA LIGHT 1250-LI	38±2	40±2	2±0.5	8.5±1	Light weight aggregate	Casting, Vibrating, Gunning	1200	25 – 30	0 – 3 0 – 5	1.25±0.1	20 – 40	30 – 50
SURA LIGHT 1500	38±2	38±2	6.5±1	9.5±1	Light weight aggregate	Casting, Vibrating, Gunning	1350	20 – 25	0 – 3 0 – 5	1.5±0.1	20 – 40	30 – 50
SURA LIGHT 1500-LI	44±2	40±2	2±0.5	8.5±1	Light weight aggregate	Casting, Vibrating, Gunning	1350	20 – 25	0 – 3 0 – 5	1.5±0.1	20 – 40	30 – 50
SURA LIGHT 1500 HS	44±2	41±2	1±0.5	10.5±1	Light weight aggregate	Casting, Vibrating, Gunning	1350	25 – 30	0 – 3 0 – 5	1.5±0.1	>70	>70
Standards	ISO 21587-2						ISO 825 ,1146	ASTM C860		ASTM C20	ASTM C133	



Refractories Coating Masses

جرم های پوششی نسوز

Products	Chemical Analysis (%wt)				Main Component	Application Method	Refractoriness (° C)	Required Water (%)	Grain Size (mm)	Bulk Density At 110 ° C (gr/cm ³)	C.C.S (Kg/cm ²)	
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO							110 °C	1100 °C
SURA COAT 50	50±2	38±2	2.5±0.5	6±1	Bauxite, Chamotte	Troweling	1550	13 – 15	0 – 1	2±0.1	200 – 400	150 – 350
SURA COAT 55	55±2	36±2	2±0.5	6±1	Bauxite, Chamotte	Troweling	1600	13 – 15	0 – 1	2.1±0.1	200 – 400	150 – 350
SURA COAT 65	65±2	28±2	2±0.5	4.5±0.5	Bauxite	Troweling	1650	12 – 14	0 – 1	2.2±0.1	250 – 450	200 – 400
SURA COAT 75	75±2	17±1	2±0.5	4±0.5	Bauxite	Troweling	1700	12 – 14	0 – 1	2.3±0.1	250 – 450	200 – 400
SURA COAT 80	80±2	15±1	1±0.5	3.5±0.5	Tabular, Bauxite	Troweling	>1730	11 – 13	0 – 1	2.4±0.1	300 – 500	250 – 450
SURA COAT 85	85±2	10±1	1±0.5	3.5±0.5	Tabular Alumina	Troweling	>1730	11 – 13	0 – 1 0 – 2 0 – 3	2.5±0.1	300 – 500	250 – 450
SURA COAT 90	90±2	5.5±0.5	< 1	3.5±0.5	Tabular Alumina	Troweling	>1800	10 – 12	0 – 1 0 – 2 0 – 3	2.65±0.1	350 – 550	300 – 500
SURA COAT 92	90±2	4.5±0.5	< 0.8	3±0.5	Tabular Alumina	Troweling	>1800	10 – 12	0 – 1 0 – 2 0 – 3	2.7±0.1	350 – 550	300 – 500
SURA COAT 94	94±1	3.5±0.5	< 0.5	2.5±0.5	Tabular Alumina	Troweling	>1800	9 – 11	0 – 1 0 – 2 0 – 3	2.8±0.1	400 – 600	350 – 550
SURA COAT 95	95±1	2.5±0.5	< 0.2	2.5±0.5	Tabular Alumina	Troweling	>1800	8 – 10	0 – 1 0 – 2 0 – 3	2.9±0.1	400 – 600	400 – 600
Standards	ISO 21587-2						ISO 825 ,1146	ASTM C860		ASTM C20	ASTM C133	





refractories Gunning Masses

جرم های پاشیدنی نسوز

Products	Chemical Analysis (%wt)				Main Component	Application Method	Refractoriness (° C)	Required Water (%)	Grain Size (mm)	Bulk Density At 110 ° C (gr/cm ³)	C.C.S (Kg/cm ²)	
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO							110 °C	1100 °C
SURA GUN 35	35±2	45±2	5±1	9±1	Chamotte	Gunning	1300	At Nozzle	0 – 3	1.5±0.1	20 – 70	10 – 60
SURA GUN 45	45±2	41±2	3.5±1	7±0.5	Chamotte	Gunning	1450	At Nozzle	0 – 3	2±0.1	60 – 120	50 – 100
SURA GUN 50	50±2	36±2	2.5±0.5	7±0.5	Bauxite, Chamotte	Gunning	1550	At Nozzle	0 – 3	2.1±0.1	90 – 170	70 – 150
SURA GUN 55	55±2	31±2	2.5±0.5	7±0.5	Bauxite, Chamotte	Gunning	1600	At Nozzle	0 – 3	2.2±0.1	150 – 250	100 – 200
SURA GUN 60	60±2	31±2	2±0.5	5.5±0.5	Bauxite, Chamotte	Gunning	1650	At Nozzle	0 – 3	2.35±0.1	200 – 400	150 – 350
SURA GUN 70	70±2	21±2	1.5±0.5	4.5±0.5	Bauxite, Chamotte	Gunning	1700	At Nozzle	0 – 3	2.4±0.1	300 – 500	250 – 450
SURA GUN 75	75±2	21±2	< 1	1.5±0.5	Bauxite, Andalusite	Gunning	>1730	At Nozzle	0 – 3	2.5±0.1	300 – 500	250 – 450
SURA GUN 80	80±2	12±1	1.5±0.5	4.5±0.5	Tabular, Bauxite	Gunning	>1730	At Nozzle	0 – 3 0 – 5	2.55±0.1	350 – 550	300 – 500
SURA GUN 85	85±2	11±1	< 0.5	4.5±0.5	Tabular Alumina	Gunning	>1730	At Nozzle	0 – 3 0 – 5	2.6±0.1	400 – 600	350 – 550
SURA GUN 90	90±2	5.5±0.5	< 1	3±0.5	Tabular Alumina	Gunning	>1800	At Nozzle	0 – 3 0 – 5	2.65±0.1	450 – 650	400 – 600
SURA GUN 92	92±2	5.5±0.5	< 1	3±0.5	Tabular Alumina	Gunning	>1800	At Nozzle	0 – 3 0 – 5	2.7±0.1	450 – 650	400 – 600
Standards	ISO 21587-2						ISO 825 ,1146			ASTM C20	ASTM C133	



refractories Mortars

ملات های نسوز

Products	Chemical Analysis (%wt)					Main Component	Application Method	Refractoriness (° C)	Required Water (%)	Grain Size (mm)
	Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	Cr ₂ O ₃	C					
SURA MOR 38	38±2	53±2	2±0.5	-	-	Chamotte	Troweling	1450	25 – 28	0 – 0.2
SURA MOR 40	40±2	53±2	2±0.5	-	-	Chamotte	Troweling	1450	23 – 27	0 – 0.2
SURA MOR 50	50±2	36±2	2±0.5	-	-	Chamotte	Troweling	1500	22 – 26	0 – 0.2
SURA MOR 60	60±2	32±2	2±0.5	-	-	Bauxite, Chamotte	Troweling	1600	21 – 25	0 – 0.2
SURA MOR 70	70±2	22±2	2±0.5	-	-	Bauxite, Chamotte	Troweling	1680	20 – 24	0 – 0.2
SURA MOR 75	75±2	18±1	2±0.5	-	-	Bauxite	Troweling	1720	19 – 23	0 – 0.2
SURA MOR 80	80±2	14±1	1.5±0.5	-	-	Tabular, Bauxite	Troweling	>1730	18 – 22	0 – 0.2
SURA MOR 80 C	80±2	12±1	1.5±0.5	-	1.5±0.5	Tabular, Bauxite	Troweling	>1730	18 – 22	0 – 0.2
SURA MOR 85	85±2	11±1	1±0.5	-	-	Tabular, Bauxite	Troweling	>1730	17 – 21	0 – 0.2
SURA MOR 85 G	85±2	9±1	1±0.5	3±0.5	-	Tabular, Bauxite	Troweling	>1730	16 – 20	0 – 0.2
SURA MOR 85 M.P	85±2	9.5±1	1±0.5	2±0.5	1.5±0.5	Tabular, Bauxite	Troweling	>1730	16 – 20	0 – 0.2
SURA MOR 90 G	90±2	5±1	< 0.8	3±0.5	-	Tabular, Bauxite	Troweling	>1800	15 – 19	0 – 0.2
SURA MOR 92	92±2	6±0.5	< 0.5	-	-	Tabular Alumina	Troweling	>1800	14 – 18	0 – 0.2
SURA MOR 95	95±1	4.5±0.5	< 0.3	-	-	Tabular Alumina	Troweling	>1800	13 – 17	0 – 0.2
Standards	ISO 21587-2							ISO 825,1146	ASTM C860	







Chamotte and Calcined Bauxite

شاموت و بوکسیت کلسینه

Chemical Analysis					
Code	CT- 44	CT - 50	CT - 55	CT - 60	CT - 65
Type	Calcined Fire Clay and Bauxite				
SiO ₂	44 - 48	34 - 38	33 - 37	28 - 32	23 - 27
Al ₂ O ₃	42 - 46	48 - 52	53 - 57	58 - 62	63 - 67
Fe ₂ O ₃	2.4 - 2.8	2.3 - 2.7	2.3 - 2.7	2.3 - 2.7	2.3 - 2.7
TiO ₂	4.5 - 5.5	5.5 - 6.5	5.5 - 6.5	6 - 7	6 - 7
CaO	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
MgO	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6
K ₂ O+ Na ₂ O	≤ 1.2	≤ 1.2	≤ 1.5	≤ 1.5	≤ 1.2
L.O.I	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Application	Refractory Products				
Available Size	0 - 50 / 3 - 5 / 1 - 3 / 0 - 1 / 0 - 0.1 (mm)				
Packing	Bulk- Big Bag				
Delivery Place	Natanz				



Ball Clays (refractory plastic clays)

خاک نسوز چسبنده

Chemical Analysis					
Code	ARB-10	ARB-30	ARB-70	ARB-80	ARB-100
Type	Ball Clay				
SiO ₂	46 - 49	36 - 38	54 - 57	52 - 56	46 - 48
Al ₂ O ₃	28 - 30	26 - 28	23 - 25	26 - 28	31 - 33
Fe ₂ O ₃	< 2	1.4 – 1.8	< 2	< 2	1.5 – 2.2
TiO ₂	1 – 2.5	1 – 1.5	1 - 2	1-2	1-2
Na ₂ O+ K ₂ O	< 1	< 2	1 - 2	1 - 2	< 1
CaO	< 0.2	< 0.3	< 0.2	< 0.3	< 0.2
L.O.I	17 - 19	30 - 32	14 - 16	12 - 14	15 - 17
Plasticity	31 - 28	33 - 31	33 - 31	35 - 32	34 - 32
Refractoriness (P.C.E)	+ 28	---	+ 28	+ 29	+ 31
Application	Refractory Binder , Facade Bricks	Insulation Re- fractory Binder	Refractory Binder		
Sizing	< 40 mm < 10 mm < mesh 140	<250 mm < 40 mm < mesh 140	< 40 mm < mesh 140		< 40 mm < 10 mm < mesh 140
Packing	Big bag, Bulk				
Delivery Place	Tabas – Robate Khan				
*Samples are tested under company laboratory condition.					





Chemical Analysis	
Code	CS - 10
Type	Calcined Fire Clay
SiO ₂	50 - 52
Al ₂ O ₃	43 - 44
Fe ₂ O ₃	< 2.1
TiO ₂	< 2
CaO	< 0.5
MgO	< 0.5
K ₂ O+ Na ₂ O	< 0.5
L.O.I	< 0.15
Bulk Density (gr/cm ³)	2.70- 2.76
Water Absorption (%)	< 2
Application	Refractory Products
Available Size	0 – 12 (mm)
	3 – 5 / 1 – 3 / 0 – 1 / 0 - 0.1 (mm)
Delivery Place	Natanz
Packing	Bulk- Big Bag





شرکت معدنی و صنعتی
سوراوجین عقیق
SURAVAJIN AGHIGH
Mining & Industrial Co.

تهران، یوسف آباد، خیابان ابن سینا،
نیش کوچه ۳۱، شماره ۸۲، طبقه ۳، واحد ۶

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No. 82, 3rd floor, unit 6, St.31, Ibn
Sina St., Yousef Abad, Tehran, Iran

+9821-88107236 . +9821-88107252
+9821-88105230 . +9821-88105298

info@iranclay.ir

www.iranclay.ir