

## Raw Materials for Refractory Facade Bricks

Code	ASI-10	ASI-20	ASF-10	ASB-10	ARK-20	ARB-10	ARB-30	ARB-70	ARB-100	ARF-37	ARF-40	ASEM-50	ASEM-60
	Clay	Clay	Feldspar	Bentonite	Ball clay	Ball clay	Ball clay	Ball clay	Ball clay	Fire clay	Fire clay	Red clay	Red clay
<b>Chemical Analysis</b>													
<b>SiO<sub>2</sub></b>	68±1	67±2	69±1	66.5-67.5	62.64	46 ±1	38±1	54-55	42	39±1	38.5±1	28-31	35-36
<b>Al<sub>2</sub>O<sub>3</sub></b>	12.5±1	13±0.5	16±1	12-13	19-21	27±1	26±1	>24	33±1	37-39	40±1.5	32-36	31-34
<b>Fe<sub>2</sub>O<sub>3</sub></b>	1.9-2	<2.2	0.9 -1	1-1.3	2-3	<1.5	1.5	<2	<2	4-6	<2.5	19-27	14-15
<b>TiO<sub>2</sub></b>	0.3	0.4	<0.5	<0.2	1-2	<1.5	1	1.5	1.5	5-5.5	5-5.5	1-1.3	1-1.3
<b>CaO</b>	2.8-3	3	<1	5.5-6.5	<1	<0.5	0.5	0-4	<0.4	<0.5	<0.5	<0.5	<0.5
<b>MgO</b>	0.9-1.1	0.8	2±0.5	1.5		--	--	--	--	<0.5	<0.5	<0.5	<0.5
<b>K<sub>2</sub>O</b>	3-3.4	3.2-3.8	2-2.5	2-2.5	<3	<2	2.5	2	<1	<1.5	<1	<0.5	<1
<b>Na<sub>2</sub>O</b>	1-3.4	1-1.3	4.5-5	0.7	<1								
<b>L.O.I</b>	5-6	6±0.5	2-3	8-9	6.5-7	18-20	<30	14-15	16	9 -11	12-13	10.5-11.5	12
<b>Mine Location</b>	Qazvin	Qazvin	Qazvin	Qazvin	Tabas	Tabas	Tabas	Tabas	Tabas	Tabas	Tabas	Isfahan	Isfahan
<b>Sizing</b>	0-25 cm 0-15 mm	0-25 cm 0-15 mm	<5 mm	0-25 cm	0-25 cm 0-30 mm Powder	0-30 mm Powder	0-30 mm Powder	0-30 mm Powder	0-30 mm Powder	0-25 cm 0-30 mm	0-25 cm 0-30 mm	0-12 mm	0- 400 mm

\* Samples are tested under company laboratory condition



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