



IREFCO
SOLUTIONS
IN
ALUMINUM
INDUSTRIES



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PRODUCT		ALMA 85SP	SEMIROM	IREFCAST H	IREFCAST ESLIC	IREFCAST 23 ES
Bulk density Kg / m ³ (At 110 ° C)		≥ 2.65	≥ 2.2	1550	1425	1260
Cold Crushing Strength Kg / cm ² (At 110 ° C)		≥ 700	≥ 400	2290	2300	1500
Modulus of Rupture Kg / cm ² (At 110 ° C)		> 200	> 85	> 350	>300	> 50
Apparent porosity %		< 20	< 17	—	—	—
Refractoriness under load T05 (° C)		>1450	>1340	—	—	—
CHEMICAL	Al2O3 %	> 83	> 40	49 – 51	44 – 47	37 – 40
	Fe2O3 %	< 2	< 2	1.5 – 2	2.5 – 3.5	5 – 7
ANALYSIS	CaO %	—	—	4 – 5	9 – 11	10 – 13
	SiO2 %	< 10	< 54	39 – 41	35 – 37	36 – 40
DESCRIPTION		High alumina, Phosphate bonded brick.	Super duty Fireclay Brick	High Alumina dense Castable with High purity calcium – aluminate cement.	Coarse Fireclay base, castable with low iron hydraulic binder.	Light Weight Castable
		High Mechanical Strength				Intermediate Strength and Insulating Value – Hydraulic Bonded Castable .
		Ultra Abrasion resistant	High Mechanical Strength	High Mechanical Strength.	Excellent strength throughout its entire temperature range	
		Excellent thermal shock resistance				High Temperature Application
		High Temperature Application	High Temperature application.	Light Handed Installation		
		Chemical Corrosion Resistance			Low Iron	Low iron
		Low Iron	High Temperature Application			
APPLICATION AREA		Bottom and walls of Aluminum furnace		Walls and roof of Aluminum furnace	Melting Aluminum channels	Bottom bed layer of Aluminum furnace
			Anode baking furnace	Walls and roof of Aluminum furnace	Exhaust ducts	
			Crucibles	Exhaust ducts		Exhaust ducts
		Safety layers of Crucibles		General uses	General uses	
		General uses				General uses