



### IRECAST 22

<b>Max. Temperature Service:</b>	1210 °C
<b>Classification:</b>	Light weight cast able
<b>Main Raw Material Component:</b>	Blended cast able employing calcined clays , firm lightweight aggregates & calcium – aluminate binder .
<b>Type Of Bond:</b>	Hydraulic
<b>Grain Size</b>	0 – 3.5 mm
<b>Water required For Pouring</b>	44 – 53 %
<b>Dry Castable Required</b>	1060 Kg/m <sup>3</sup>
<b>Features and Main Applications:</b>	Low Thermal Conductivity. Good refractoriness, Good strength, Excellent resistance to thermal shock, easily installed by casting or troweling & may be gunned. Recommended for Chemical & Petrochemical Industries, Various industrial furnaces , boilers , incinerators , stacks and as backup for other refractories suitable for greater mechanical abuse and higher temperatures.

<b>Chemical Composition</b> (Calcined base)				
<b>Al<sub>2</sub>O<sub>3</sub> %</b>	<b>SiO<sub>2</sub> %</b>	<b>Fe<sub>2</sub>O<sub>3</sub> %</b>	<b>TiO<sub>2</sub> %</b>	<b>CaO %</b>
33 – 37	38 – 41	5.5 – 7.5	2.0 – 2.8	12 – 14

<b>Thermomechanical Properties</b>			
		<i>After drying at 110 °C</i>	<i>After heating at 1100 °C</i>
<b>Bulk Density</b>	(Kg/m <sup>3</sup> )	< 1100	–
<b>Cold Crushing Strength</b>	( kg/cm <sup>2</sup> )	> 20	> 30
<b>Modulus of Rupture</b>	( kg/cm <sup>2</sup> )	10-25	5-10
<b>Linear Change</b>	( %)	Negligible	– 1.0 to + 0.1

All data based on cast specimens . ASTM procedures , where applicable , used for determination of data .

For data of vibration cast or gunned , consult our sales & Engineering service's experts .

All data subject to reasonable deviations , and therefore , should not be used for specification purposes .ASTM

Test Methods, where applicable, used for determination of data.

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