

# INSULATING CASTABLES (VERMICULITE BASED)

## CUMICRETE

Light Weight

CHARACTERISTICS	UNIT	CUMICRETE CIV 101	CUMICRETE CIV 224	CUMICRETE CIV 102	CUMICRETE C9G	CUMICRETE CV 531
Maximum Service Temperature	°C	1100	1100	1200	1100	1100
Maximum Grain Size	mm	4	4	4	4	4
Bulk Density dried at 110°C / 48hrs.	gm/cc,max	0.85	0.90	1.10	1.30	1.40
Cold Crushing Strength	Kg/cm <sup>2</sup>					
Dried at 110°C/48 hrs	min.	12	10	20	15	20
Fired at 800°C/3 hrs	min.	4	15	15	15	20
Fired at 1100°C/3 hrs	min.	6	15 at 1000°C/3 hrs	12	15 at 1000°C/3 hrs	10 at 1000°C/3 hrs
Permanent Linear Change	%					
Fired at 800°C/3 hrs	max.	+/-0.75	+/-0.5	+/-0.6	+/-0.8	+/-0.5
Fired at 1100°C/3 hrs	max.	+/-1.60	+/-1.0 at 1000°C/3h	+/-1.2	+/-2.0 at 1000°C/3 hrs	+/-1.0 at 1000°C/3 hrs
Thermal Conductivity						
Hot Face at 540°C	W/m <sup>2</sup> K,	0.18	0.12	0.22	0.10	0.15
Hot Face at 815°C	max.	-	0.15	-	0.21	0.15
Hot Face at 1000°C		0.23	0.17	0.4	0.23	0.20
Recommended Water Addition	%	60-65	75- 80	45 - 60	50-60	40 - 50
	By Weight					
Chemical Analysis	%					
Al <sub>2</sub> O <sub>3</sub>	min.	30.0	42.0	34.0	31.0	45.0
SiO <sub>2</sub>	max.	-	25.0	-	32.0	40.0
Fe <sub>2</sub> O <sub>3</sub>	max.	7.0	4.5	5.0	6.0	3.0

Shelf Life : 6 months from the date of manufacture

Packing : In 25/30 Kg LDPE lined HDPE bags

Note : Water requirements indicated are based on laboratory test conditions. Actual water requirement may vary subject to site conditions. The properties shown are for vibratory cast material only unless specified otherwise.



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GROUP

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