

LOW CEMENT CASTABLES (CALCINED CLAY & CALCINED BAUXITE BASED)



CUMIHICAST

CHARACTERISTICS	UNIT	CUMIHICAST 45	CUMIHICAST SUPER	CUMIHICAST 45 SI	CUMIHICAST 50	CUMIHICAST 60
Maximum Service Temperature	°C	1450	1550	1450	1600	1600
Maximum Grain Size	mm	6	6	6	6	6
Bulk Density Dried at 110°C/24 hrs.	gm/cc,min	2.25	2.25	2.25	2.30	2.50
Cold Crushing Strength	Kg/cm ²					
Dried at 110°C/24 hrs	min.	700	735	650	750	750
Fired at 1000°C/3 hrs	min.	850	875	800	850	850
Fired at 1450°C/3 hrs	min.	950	950	900	1000	1000
Permanent Linear Change	%					
Fired at 1000°C/3 hrs	max.	± 0.30	± 0.30	± 0.30	± 0.30	± 0.20
Fired at 1450°C/3 hrs	max.	± 1.00	± 1.00	± 1.00	± 1.00	± 0.80
Recommended Water Addition (By wt.)	%	5 - 6	5 - 6	5 - 6.5	5 - 6	4.5 - 5.5
Chemical Analysis	%					
Al ₂ O ₃	min.	45.0	45.0	45.0	50.0	60.0
CaO	max.	-	2.00	-	2.50	2.50
Fe ₂ O ₃	max.	1.00	1.00	1.00	1.50	1.50

Shelf Life : 6 months from the date of manufacture

Packing : In 50 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.



CARBORUNDUM UNIVERSAL LIMITED
SUPER REFRACTORIES



Works

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Phase II, Ranipet 632 403, TN, India.
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Fax: +91 4172 244982.

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CUMIHICAST

CHARACTERISTICS	UNIT	CUMIHICAST 60 SI	CUMIHICAST 65	CUMIHICAST 70	CUMIHICAST 70 AR
Maximum Service Temperature	°C	1550	1600	1600	1650
Maximum Grain Size	mm	6	6	6	6
Bulk Density Dried at 110°C/24 hrs.	gm/cc,min	2.45	2.60	2.70	2.60
Cold Crushing Strength	Kg/cm ²				
Dried at 110°C/24 hrs	min.	650	750	750	800
Fired at 1000°C/3 hrs	min.	800	950	900	900
Fired at 1550°C/3 hrs	min.	900 at 1450°C/3 hrs	1100	1000	1000
Permanent Linear Change	%				
Fired at 1000°C/3 hrs	max.	± 0.30	± 0.20	± 0.20	± 0.30
Fired at 1550°C/3 hrs	max.	± 1.00	± 0.50	± 1.00	± 1.00
Recommended Water Addition (By wt.)	%	4.5 - 6.0	4.5 - 6.0	4.5 - 5.5	4.5 - 5.5
Chemical Analysis	%				
Al ₂ O ₃	min.	60.0	65.0	70.0	68.0
CaO	max.	2.00	2.50	2.00	2.00
Fe ₂ O ₃	max.	1.50	1.50	1.50	1.50
Abrasion Resistance	(cc max)	-	-	-	3

Shelf Life : 6 months from the date of manufacture

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LOW CEMENT CASTABLES (CALCINED BAUXITE & FUSED ALUMINA BASED)



CUMIHICAST

CHARACTERISTICS	UNIT	CUMIHICAST 70 LI	CUMIHICAST 80	CUMIHICAST 80 SI	CUMIHICAST 80 SPL
Maximum Service Temperature	°C	1650	1700	1600	1600
Maximum Grain Size	mm	6	6	6	6
Bulk Density Dried at 110°C/24 hrs.	gm/cc,min	2.70	2.75	2.70	2.70
Cold Crushing Strength	Kg/cm ²				
Dried at 110°C/24 hrs	min.	700	800	750	800
Fired at 1000°C/3 hrs	min.	900	1000	900	900
Fired at 1450°C/3 hrs	min.	1000	1200 at 1550°C/3 hrs	1000	1000
Permanent Linear Change	%				
Fired at 1000°C/3 hrs	max.	± 0.20	± 0.30	± 0.30	± 0.30
Fired at 1450°C/3 hrs	max.	± 0.80	± 1.00 at 1550°C/3 hrs	± 1.00	± 1.00
Recommended Water Addition (By wt.)	%	4.5 - 5.5	4.0 - 5.5	4.5 - 6.0	4.5 - 6.0
Chemical Analysis	%				
Al ₂ O ₃	min.	70.0	80.0	78.0	78.0
CaO	max.	1.50	-	-	-
Fe ₂ O ₃	max.	0.80	1.80	-	1.80

Shelf Life : 6 months from the date of manufacture

Packing : In 50 Kg LDPE lined HDPE bags

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LOW CEMENT CASTABLES (CALCINED BAUXITE & FUSED ALUMINA BASED)



CUMIHICAST

CHARACTERISTICS	UNIT	CUMIHICAST EXTRA	CUMIHICAST 90	CUMIHICAST 90 AR	CUMIHICAST 95	CUMIHICAST 95 R
Maximum Service Temperature	°C	1700	1700	1800	1800	1800
Maximum Grain Size	mm	6	6	6	6	6
Bulk Density Dried at 110°C/24 hrs.	gm/cc,min	2.80	2.90	2.80	3.00	3.10
Cold Crushing Strength	Kg/cm ²					
Dried at 110°C/24 hrs	min.	800	850	800	950	1000
Fired at 1000°C/3 hrs	min.	1100	1000	900	1100	1230
Fired at 1550°C/3 hrs	min.	1200	1200	1000	1250	1500
Permanent Linear Change	%					
Fired at 1000°C/3 hrs	max.	± 0.30	± 0.30	± 0.20	± 0.20	± 0.20
Fired at 1550°C/3 hrs	max.	± 0.80	± 0.80	-	± 0.70	± 0.50
Recommended Water Addition (By wt.)	%	4.5 - 5.5	4.0 - 5.0	4.0 - 5.0	3.5 - 5.0	3.5 - 4.5
Chemical Analysis	%					
Al ₂ O ₃	min.	80.0	88.0	84.0	94.0	94.0
SiO ₂	max.	8.00	7.00	-	4.00	-
Fe ₂ O ₃	max.	1.50	1.00	1.50	0.30	0.10
Abrasion Resistance	(cc max)	-	-	3	-	-

Shelf Life : 6 months from the date of manufacture

Packing : In 50 Kg LDPE lined HDPE bags

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LOW CEMENT CASTABLES (ANDALUSITE, MULLITE & ZIRCONIA - MULLITE BASED)



CUMIHICAST

CHARACTERISTICS	UNIT	CUMIHICAST 60A	CUMIHICAST 75R	CUMIHICAST 75R (0-3 mm)	CUMIHICAST CZM 31
Maximum Service Temperature	°C	1600	1700	1700	1600
Maximum Grain Size	mm	8	5	3	5
Bulk Density Dried at 110°C/24 hrs.	gm/cc,min	2.65	2.60	2.60	2.80
Cold Crushing Strength	Kg/cm ²				
Dried at 110°C/24 hrs	min.	900	700	700	700
Fired at 1000°C/3 hrs	min.	950	800	800	850
Fired at 1550°C/3 hrs	min.	1000 at 1450°C/3 hrs	900	900	1000
Permanent Linear Change	%				
Fired at 1000°C/3 hrs	max.	± 0.30	± 0.30	± 0.30	± 0.10
Fired at 1550°C/3 hrs	max.	± 0.80 at 1450°C/3 hrs	± 1.50	± 1.50	± 1.50
Recommended Water Addition (By wt.)	%	4.0 - 5.0	4.0 - 5.5	4.0 - 5.5	4.0 - 5.5
Chemical Analysis	%				
Al ₂ O ₃	min.	62.0	72.0	72.0	42.0
SiO ₂	max.	2.0 (CaO)	22.0	22.0	25.0
Fe ₂ O ₃	max.	1.20	0.80	0.80	0.15
ZrO ₂	min.	-	-	-	30.0

Shelf Life : 6 months from the date of manufacture

Packing : In 50 Kg LDPE lined HDPE bags

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LOW CEMENT CASTABLES (SILICON CARBIDE BASED)



CUMIHICAST

CHARACTERISTICS	UNIT	CUMIHICAST 17 SiC	CUMIHICAST 19 SiC	CUMIHICAST 30 SiC	CUMIHICAST 33 SiC	CUMIHICAST 65 SiC	CUMIHICAST 85 SiC
Maximum Service Temperature	°C	1550	1450	1450	1450	1450	1400
Maximum Grain Size	mm	8	5	6	6	6	6
Bulk Density Dried at 110°C/24 hrs.	gm/cc,min	2.80	2.70	2.30	2.55	2.50	2.40
Cold Crushing Strength	Kg/cm ²						
Dried at 110°C/24 hrs	min.	250	300	550	550	550	350
Fired at 1000°C/3 hrs	min.	500	600	750	800	700	550
Fired at 1450°C/3 hrs	min.	600	550	900	900	850	-
Permanent Linear Change	%						
Fired at 1000°C/3 hrs	max.	-	± 0.30	± 0.20	± 0.20	± 0.20	± 0.30
Fired at 1450°C/3 hrs	max.	± 0.75	-	± 1.00	± 1.00	± 1.00	-
Recommended Water Addition (By wt.)	%	4.5 - 5.5	5.0 - 6.5	5 - 6	5 - 6	4.0 - 5.5	5.0 - 6.5
Chemical Analysis	%						
Al ₂ O ₃	min.	70.0	70.0	28.0	50.0	27.0	10.0
SiC	min.	17.0	19.0	30.0	32.0	62.0	80.0
Fe ₂ O ₃	max.	0.50	0.80	1.00	0.80	0.50	0.80

Shelf Life : 6 months from the date of manufacture

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LOW CEMENT CASTABLES (CALCINED CLAY & CALCINED BAUXITE BASED)



CUMIPLASCAST

Low Cement Castables With Plasticity

CHARACTERISTICS	UNIT	CUMIPLASCAST SUPER	CUMIPLASCAST 60	CUMIPLASCAST EXTRA
Maximum Service Temperature	°C	1600	1600	1700
Maximum Grain Size	mm	5	6	6
Bulk Density Dried at 110°C/24 hrs.	gm/cc,min	2.20	2.40	2.50
Cold Crushing Strength	Kg/cm ²			
Dried at 110°C/24 hrs	min.	100	150	150
Fired at 1000°C/3 hrs	min.	250	250	250
Fired at 1450°C/3 hrs.	min.	400	400	450
Permanent Linear Change	%			
Fired at 1000°C/3 hrs	max.	± 0.20	± 0.20	± 0.20
Fired at 1450°C/3 hrs	max.	± 1.00	± 1.00	+1.0
Recommended Water Addition (By wt.)	%	8 - 9	7 - 9	7 - 9
Chemical Analysis	%			
Al ₂ O ₃	min.	47.0	60.0	76.0
SiO ₂	max.	48.0	35.0	17.0
Fe ₂ O ₃	max.	1.50	1.50	1.60

Shelf Life : 6 months from the date of manufacture

Packing : In 50 Kg LDPE lined HDPE bags

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