

## PRODUCT RANGE AND SPECIFICATIONS

### FIRE CLAY BRICKS AND HIGH ALUMINA BRICKS

BRAND NAME	Al <sub>2</sub> O <sub>3</sub> % (min)	Fe <sub>2</sub> O <sub>3</sub> % (max)	A.P. % (max)	B.D. Gms/cc (min)	C.C.S. kgs/cm <sup>2</sup> (min)	P.C.E. orton (min)	R.U.L. Ta°C (min)	P.L.C. % (max)
DEC – 30	28 - 30	2.0	25	1.9	250	30	1300	+1.5 at 1300°C/2 hrs
DEC - HHD	35 – 37	2.1	25	2.0	300	30	1350	+1.5 at 1350°C/2 hrs
DEC – 40	40	2.5	23	2.1	350	31	1400	+1.5 at 1400°C/2 hrs
DEC – 42D	42	1.8	20	2.2	400	32	1450	+0.5 at 1450°C/2 hrs
DEC – 45D	45	1.5	18 - 20	2.25	450	32 +	1450	+0.5 at 1450°C/2 hrs
DEC – 50	50	2.75	22	2.3	400	33	1420	+1.0 at 1450°C/2 hrs
DEC - 60	60	3.0	22	2.55	450	34	1450	+1.5 at 1450°C/2 hrs
DEC – 60 LF	60	2.0	20	2.45	450	34	1450	+1.5 at 1450°C/2 hrs
DEC - 70	70	3.2	22	2.65	550	36	1470	+1.5 at 1500°C/2 hrs
DEC – 70 LF	70	2.5	22	2.7	550	36	1470	+1.5 at 1500°C/2 hrs
DEC – 80	80	3.5	21	2.75	600	37	1500	+2.5 at 1550°C/2 hrs

**Note: -**

1. Size Tolerance: ±1.5% or 2mm whichever is greater
2. The above data is on basis of average results.

## MORTARS

BRAND NAME	Al <sub>2</sub> O <sub>3</sub> % (min)	Fe <sub>2</sub> O <sub>3</sub> % (max)	Grading (mm)	Service Temperature (°C)	Setting
DEC – 30 M	30	2.0	0-1	1300	Ceramic
DEC – 40 M	40	2.2	0-1	1350	Ceramic
DEC – 50 M	50	2.5	0-1	1400	Ceramic
DEC – 60 M	60	3.0	0-1	1450	Ceramic
DEC – 70 M	70	3.5	0-1	1500	Ceramic

## CASTABLES

BRAND NAME	Al <sub>2</sub> O <sub>3</sub> % (min)	Fe <sub>2</sub> O <sub>3</sub> % (max)	C.C.S (kgs/cm <sup>2</sup> ) at 110 °C	C.C.S (kgs/cm <sup>2</sup> ) after firing	Maximum Service Temp. (°C)
DEC-Cast-40	40	2.0	250	350	1350
DEC-Cast-60	60	3.0	350	450	1450
DEC-Cast-70	70	3.5	400	500	1500

**Note: -**

1. The above data is on basis of average results.
2. Our general grading is 0-5 mm. However the same may be changed as per requirement of customers.

## SPECIFICATIONS OF RAW MATERIALS

Sr No	Material Description	Parameters										
		Al <sub>2</sub> O <sub>3</sub> (% min)	Fe <sub>2</sub> O <sub>3</sub> (% max)	Total Contra-ction (%)	PCE	Plasticity (%)	W/A (%)	LOI (%)	BD Gm/cc	A.P. (%)	TiO <sub>2</sub> (%)	SiO <sub>2</sub> (%)
<b>A</b>	<b>FIRE CLAY</b>											
1	Than	24.0	1.0	7.0	28.0	25.0	-	12.0	-	-	1.8	55
2	Vinaygadh	24.0	1.2	11.0	28.0	24.0	-	10.0	-	-		
3	Rajgadh	25.0	1.2	10.0	27.0	27.0	-	12.0	-	-	1.2	59
4	Santalpur	26.0	1.3	16.0	28.0	28.0	-	8.0	-	-	1.6	60
5	Bikaner	31.0	1.2	18.0	29.0	30.0	-	10.0	-	-	2.3	51
6	Chitrakheda	24.0	1.3	9.0	28.0	23.0	-	11.0	-	-	1.5	53
7	Makansar	27.0	0.8	6.0	28.0	18.0	-	10.0	-	-	1.6	58
8	Wash China	28.0	0.7	9.0	29.0	30.0	-	11.0	-	-	0.8	48
9	NP 1	31.0	0.2	7.0	30.0	19.0	-	13.0	-	-	5.1	45
<b>B</b>	<b>GROG</b>											
1	IS – 6	28.0	2.0	-	-	-	-	-	-	-	2.4	-
2	IS – 8	38.0	2.2	-	-	-	-	-	-	-	2.6	
3	Calc. NP1	34.0	1.2	-	-	-	-	-	-	-	6.6	-
4	High Alumina	65-70	3 – 3.5	-	-	-	-	-	-	-	3.5	4
<b>C</b>	<b>BAUXITE</b>											
1	VSK	75	3.5	-	-	-	-	-	-	-	2.8	4.7
2	RK	85	3.8	-	-	-	-	-	-	-		
3	Diaspore	56 - 58	1.1	-								
4	Kyanite / Siliminite	46 – 48	1.4									

- The above data is on the basis of average results.

## LIST OF MACHINERY

### Section A (Crushing, Grinding, Mixing)

1. Jaw Crusher	-	2 Nos.
2. Disintegrator	-	2 Nos.
3. Magnetic Separator	-	4 Nos.
4. Double shaft Mixer (4 T/Hr)	-	1 Nos.
5. Muller Mixer Machine (1 .5T /hr)	-	2 Nos.
6. Pan Mixer Machine	-	1 Nos.
7. Pulveriser	-	1 Nos.

### Section B (Pressing)

1. Friction Screw Press - Han make (150 MT)	-	1 Nos.
2. Friction Screw Press (150 MT)	-	2 Nos.
3. Friction Screw Press (1 10 MT)	-	4 Nos.
4. Friction Screw Press (80 MT)	-	2 Nos.

### Section C (Firing)

1. Electric Dryer (10 trollies)	-	1 Nos.
2. Electric Continuous Tunnel Kiln	-	1 Nos.

### Section D (Laboratory)

1. Chemical Analysis (Alumina, Iron and allkalies)		
2. CCS Test Machine.		
3. Bulk Density Test		
4. Apparent Porosity Test.		

### Section E (Workshop)

1. Lathe Machine	-	2 Nos.
2. Surface Grinder	-	1 Nos.
3. Drill Machine	-	1 Nos.
4. Shaping Machine	-	1 Nos.
5. Welding Machine	-	2 Nos.
6. Hand Grinding Machine	-	2 Nos.