

BAUXITE : Raw-Bauxite, Re-factory Grade, Cement grade, Metal Grade, Aluminum grade, Chemicals Grade, Calcined Bauxite & other order bases processed Bauxite.

<u>RAW BAUXITE</u>	<u>FOR PRODUCTION OF</u>
a) High grade bauxite: (Al ₂ O ₃ - 58 to 60 %)	Calcined- Refractory grade, Abrasive grade, High Alumina Cement Mortar. Bauxite - Non-Ferric Alumina grade
b) Medium grade bauxite (Al ₂ O ₃ - 50 to 54 %)	- Metal grade - Ferric Alum Grade.
c) Low grade bauxite (Al ₂ O ₃ - 48 to 52 %)	-Cement grade -Emery grade

Bauxite Chemicals Grade (For Alum Plant)

Al₂O₃	Fe₂O₃	SiO₂	CaO	MgO	TiO₂	LOI
55 to 57%	0 to 5%	2 to 3%	2 to 3%	0.9 to 1%	6 to 7%	27 to 28%

RAW BAUXITE

<u>RAW BAUXITE</u>	<u>CEMENT GRADE</u>	<u>METAL GRADE</u>
Al ₂ O ₃	40-48%	45-50% max
Fe ₂ O ₃	10% min	8% min
SiO ₂	5-10% max	4% to 7% max
TiO ₂	3.5% max	3.5% max
CaO	2.5-3%	2% max
LOI	29% max	28-30% max
Moisture	5% max	5% max

CALCINED BAUXITE

Refractory & Abrasive grade Calcined Bauxite being manufactured out of High grade Raw Bauxite duly heated up to 1200oC/1500oC Temp as required for uses, which are the main raw materials for Refractories Plants Abrasive units, Steel Plants, mortar etc.

THE GRADE AVAILAVBLE FROM DEPOSITED AT OUR GUJARAT MINES / FACTORY

<u>CALCINE</u> <u>D</u> <u>BAUXITE</u>	ROTARY KILN			SHAFT KILN	
	GENERAL GRADE	LOW FERRIC	ABRASIVE GRADE	SCAY	SCAY-H
Al ₂ O ₃	85-86%	85-88%	85-87%	75-76%	77-80%
Fe ₂ O ₃	3.6% max	2.5-2.6% max	4.0% max	4.5% max	4.5% max
SiO ₂	3.6% max	3.6% max	3.6% max	7.0% max	7.0% max
TiO ₂	4.6% max	4.6% max	4.8% max	4.5% max	4.5% max
CaO	2.2% max	2.2% max	1.2% max	2.6% max	2.6% max
MgO	0.3% max	0.3% max	0.25% max	0.3% max	0.3% max
LOI	0.4% max	0.4% max	0.8% max	1.6% max	0.9% max
Bulk Density gm/cc	3-3.1	3-3.1	2.6-2.8	2.6 to 2.75	2.85