

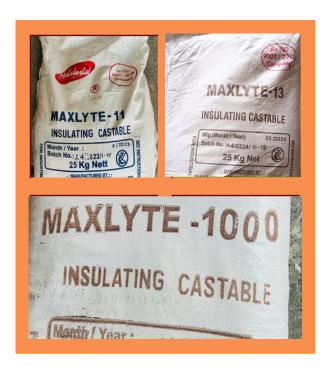
- High temperature resistance: They can withstand extremely high temperatures without breaking down.
- Versatility: They can be molded into various shapes and sizes.
- Durability: They offer excellent resistance to wear and tear.
- Ease of application: They can be installed relatively quickly and easily.

DENSE CASTABLES

Dense castable is a type of refractory material that is used in high-temperature environments. It's a cement-like substance that can be poured into molds or placed directly onto surfaces to form a solid, heat-resistant layer.

- Furnaces and Kilns
- Foundries
- Incinerators
- Steel Plants
- Cement Plants
- Petrochemical Plants
- Glass Furnaces
- Heat Treatment Furnaces:

PROPERTIES	MAXCAST 97 SPL	MAXHEAT A SPL	МАХНЕАТ К	MAXHEAT K SUPER
Chemical Properties				
Al ₂ O ₃ (Wt%)	95.8	90.3	60.10	54.60
Fe ₂ O ₃ (Wt%)	0.26	0.96	0.94	1.40
TiO ₂ (Wt%)	0.28	1.62	2.25	2.16
Physical Properties				
Bulk Density at 110°C/24hrs (g/cm³)	2.82	2.86	2.29	2.26
Max. Service Temperature (°C)	1800	1750	1600	1550
Grain Size (mm)	6	5	0 - 5	0 - 5



- Low density: This contributes to their excellent insulating properties.
- Low thermal conductivity: Effectively reduces heat transfer.
- **Lightweight:** Easier to handle and install compared to dense refractory materials.

INSULATION CASTABLES

Insulation castables are specialized refractory materials designed to resist high temperatures while providing excellent thermal insulation. They are typically used on the cold face of applications to minimize heat loss.

- Industrial Furnaces and Kilns
- Power plants
- Refineries
- Foundries
- Cement and glass Industries

PROPERTIES	MAXLYTE - 7	MAXLYTE - 11	MAXLYTE - 13	MAXLYTE - 1000	
Chemical Properties					
Al ₂ O ₃ (Wt%)	26.4	38.2	31.90	31.60	
SiO ₂ (Wt%)	48.9	40.14	44.00	42.90	
Fe ₂ O ₃ (Wt%)	7.35	3.2	3.45	6.40	
K ₂ O + Na ₂ O (Wt%)	0.78	0.28	0.75		
Mechanichal Properties	Mechanichal Properties				
Cold Crushing Strength After Drying at 110°C/24hrs After firing at 800°C/3hrs After firing at 1100°C/3hrs (kg/cm²)	13.2 4.5 6.8	39 30 27.5	70 40 36 62	34 32	
Thermal Properties					
Max.Service Temp (°C)	900	1300	1390	1000	
Max. Grain Size (mm)	0-6	0 - 6	0 - 6	0 - 5	



PROPERTIES	MAXSET - HD 4	
Chemical Properties		
Base raw material	Calcined Clay	
Shelf Life (Months)	12	
Packaging/Bags	25 Kg	
Maximum Service Temp	1350°	
Sintering Temp	1100	
Maximum Grain Size	1	
Chemichal Analysis		
Al ₂ O ₃ (Wt%)	30.10	
SiO ₂ (Wt%)	57.70	
Fe ₂ O ₃ (Wt%)	3.40	
TiO ₂ (Wt%)	3.10	
Physical Properties		
Water for trowelling consistency (%)	33-38	
Water Required for a ramming consistency (%)	14 - 19	

MAXSET - HD 4

Maxset HD4 is a type of refractory mortar. Refractory materials are those capable of withstanding high temperatures without softening or melting. Mortars are used to bind refractory bricks or other components together.

- **High-temperature applications:** Environments with extremely high temperatures.
- Heavy-duty use: Areas subject to severe thermal shock or mechanical stress.
- **Specific industries:** Certain sectors with unique refractory requirements.

- Industrial Furnaces
- Kilns
- Power Plants
- Petrochemical Industry



- Moldable: Can be shaped by hand or with tools.
- High-temperature resistant: Able to withstand extreme heat without deteriorating
- **Durable:** Offers good mechanical strength and resistance to wear.
- Refractory aggregates: Provide the heat-resistant properties.
- Clay binder: Binds the materials together and imparts plasticity.

PLASTIC REFRACTORY

Plastic refractory is a type of refractory material that is Flexible and can be molded into various shapes before hardening. It's essentially a mixture of refractory aggregates, clay binders, and water that provides enough plasticity for shaping.

- Industrial furnaces
- Kilns
- Boiler construction
- Metallurgical applications

PROPERTIES	MAXPLAST - AL-AB	MAXPLAST - F45 - AB	MAXPLAST - AL - XAB
Chemical Properties			
Al ₂ O ₃ (Wt%)	53.1	42.40	72.80
SiO ₂ (Wt%)	39.8	50.60	20.60
Fe ₂ O ₃ (Wt%)	1.20	1.12	1.10
TiO ₂ (Wt%)	1.65	2.00	1.80
Physical Properties			
Maximum Service Temperature (°C)	1550	1500	1600

CERAMIC FIBER PAPER



Ceramic fiber paper is a high-temperature insulation material made from ceramic fibers. It's a non-woven, flexible sheet that exhibits exceptional thermal, chemical, and electrical properties.

- Excellent Thermal Shock Resistance
- Can be Machined, cut, and Shape easily
- High Flexibility
- Low Thermal Conductivity
- Good Dielectric Strength

Description	CERAMIC STD PAPER	
Classification Temperature (°C)	1260	
Chemical Composition (%)		
Al ₂ O ₃	42 - 47	
SiO ₂	52 - 57	
ZrO ₂	-	
Color	White	
Density (kg/m³)	200	

- Gaskets for high Temprature Applications
- Gaskets for Domestic Appliances
- Back Up Lining for metal troughs
- Thermal barriers for Vehicles
- Expansion Joints

CERAMIC FIBER MODULE



The ceramic fiber module is made from a compressed ceramic fiber blanket. The Module is specially designed to meet the thermal insulation requirements of industrial furnaces in some special thermal conditions. It is produced with various anchoring systems to enable quick, easy, and efficient installation in most furnace linings. Module Linings can increase the furnace productivity and reduce maintenance costs.

- Fast and Easy Installation
- Fast and Easy Repair
- Fast Temperature Cycling
- Low Installation and Repair Costs
- Low heat Storage

Description	CERAMIC STD MODULE
Classification Temperature (°C)	1260
Chemical Composition (%)	
Al ₂ O ₃	>43
SiO ₂	>54
ZrO ₂	-
Color	White
Density (kg/m³)	160 - 220

- Petrochemical
- Refining, Iron and Steel
- Non ferrous
- · Ceramic and Glass
- Heat Treatment

CERAMIC FIBER TAPE



Ceramic fiber tape is a narrow, woven fabric manufactured from high-temperature aluminasilicate based ceramic fiber. It's designed for use in high-temperature environments and offers excellent thermal insulation and resistance to chemical corrosion.

- Excellent Thermal Shock Resistance
- Excellent Thermal Stability
- High Temperature Stability
- Low Thermal Conductivity
- Flexible and Easy to Use

Description	TAPE WITH STAINLESS STEEL	
Continuous Use Temperature (°C)	1000	
Density (kg/m³)	500	
Color	White	
Organic Content (%)	<15	

- Gaskets in Furnaces and domestic Appliances.
- Door Seals In Furnaces
- Kiln Car Seals
- Welding Curtains
- Expansion joints

CERAMIC FIBER CLOTH



Ceramic fiber cloth is a high-temperature resistant fabric made from interwoven ceramic fibers. It's known for its exceptional heat resistance, low thermal conductivity, and excellent flexibility.

- Excellent Thermal Shock Resistance
- Excellent Thermal Stability
- High Temperature Stability
- Low Thermal Conductivity
- Flexible and Easy to Use

Description	CLOTH WITH STAINLESS STEEL
Continuous Use Temperature (°C)	1000
Density (kg/m³)	500
Color	White
Organic Content (%)	<15

- Gaskets in Furnaces and domestic Appliances.
- Door Seals In Furnaces
- Kiln Car Seals
- Welding Curtains
- Expansion joints

CERAMIC FIBER SQUARE & ROUND ROPE



Ceramic fiber rope is a high-temperature insulation material made from ceramic fibers twisted or braided together. It's known for its excellent thermal resistance, flexibility, and chemical stability.

- Excellent Thermal Shock Resistance
- Excellent Thermal Stability
- High-Temperature Stability
- Low Thermal Conductivity
- Flexible and Easy to Use

Description	SQUARE /ROUND BRAIDED ROPE
Continuous Use Temperature (°C)	1000
Density (kg/m³)	500
Color	White
Organic Content (%)	15

- Gaskets in Furnaces and domestic Appliances.
- Door Seals In Furnaces
- Kiln Car Seals
- Welding Curtains
- Expansion joints

CERAMIC FIBER BULK



Ceramic fiber bulk is a raw material used to produce various ceramic fiber products like blankets, boards, paper, cloth, and ropes.

It consists of loose, flexible ceramic fibers that are produced by melting raw materials at high temperatures and then blowing or spinning them into fibers.

- Excellent Thermal Shock Resistance
- Excellent Chemical Stability
- High Temperature Stability
- Low Thermal Conductivity
- Low Heat Storage

Description	CERAMIC FIBER BULK
Classification Temperature (°C)	1260
Chemical Composition (%)	
AI_2O_3	>43
SiO ₂	>54
ZrO ₂	-
Color	White
Shot Content (%)	<15
Fiber Diameter (um)	2 - 4

- Raw Material for finished Ceramic Fiber Products
- Insulating Fill for complex
 Spaces and difficult Access
- Packing Expansion Joints
- Kiln car infill
- Fire Door infill

CERAMIC FIBER BOARD



Ceramic fiber board is a rigid, high-temperature insulation material made from ceramic fibers and binders.

It's known for its exceptional heat resistance, low thermal conductivity, and excellent mechanical properties.

- Excellent Thermal Shock Resistance
- Can be Machined, cut and Shape Easily
- High Rigidity and Light Weight
- Low Thermal Conductivity
- low Heat Storage

Description	CERAMIC FIBER BOARD	
Classification Temperature (°C)	1430	1260
Density (kg/m³)	300/360	250/300/360
Modules Rupture (MPa)	>0.3	>0.3
Compressive Strenght (MPa, 10% relative Deformation	0.25/0.3	0.15/0.25/0.3
Color	White	White

- Furnace hot Face lining in petrochemical furnace
- Furnace hot face lining in ceramic Kiln
- Board over blanket hot face lining
- Back up insulation to brick and castsble Expansion Joints

CERAMIC FIBER BLANKET



A ceramic fiber blanket is a flexible insulation material made from interwoven ceramic fibers. It's designed to withstand extremely high temperatures without melting or degrading.

- Excellent Thermal Shock Resistance
- Excellent Thermal Stability
- High Tensile Strength
- Low Thermal Conductivity
- Low Heat Storage

Description	CERAMIC STD BLANKET		
Classification Temperature (°C)	1430	1260	
Chemical Composition (%)			
Al ₂ O ₃	>35	>43	
SiO ₂	>49	>54	
ZrO ₂	>15	_	
Color	White	White	
Shot Content (%)	>12	>15	
Density (kg/m³)	128	96/128	

- Pipe Wrap
- Furnace and Kiln backup Insulation
- Chimney Insulation
- Annealing furnace linings
- Process Heater Linings

CALCIUM SILICATE BOARD



Calcium silicate board is a non-combustible, asbestos-free building material known for its excellent fire resistance and thermal insulation properties. It's composed primarily of silica, calcium oxide, and cellulose fibers.

- Excellent Waterproof Performance
- No Oil absorption, No Water absorption, maintain the stability of the insulation performance.
- Nonasbestos, no toxic and harmless to the human body
- High Strength
- Excellent corrosion resistance
- Excellent Sound Insulation

Description	CALCIUM SILICATE BOARD
Density (kg/m³)	250±10%
Service Temperature (°C)	1100
Linear Shrinkage after heating (1050 °C x 3hrs) (%)	>2
Bending Strenght (MPa)	>0.36
Tensile Strength (MPa)	>0.90

- Industrial Pipeline
- Heat supply Pipe network System in the fields of Electric Power
- Petroleum Chemistry
- Metallurgy
- Wall Lining and back Lining of industry furnace and heating Device

INSULATING BRICKS



Insulating bricks are specialized bricks designed to resist high temperatures and, more importantly, to minimize heat transfer. They are typically made from refractory materials with a porous structure. This porosity contributes to their excellent insulating properties.

Brick Size: 230x115x75mm

• Weight/Bricks: 1.800 - 1.900 kg (min)

Description	INSULATING BRICKS
Chemical Analysis (%)	
Al ₂ O ₃	24 - 28% (Min)
Fe ₂ O ₃	2.5 - 2.7%
Temperature (°C)	1100°C

- Metallurgy
- Ceramics
- Power Generation
- Chemical Industry
- Glass Industry
- Petrochemical Industry
- Incineration and Waste Management

REFRACTORY BRICKS



Refractory bricks are specialized ceramic materials designed to withstand extremely high temperatures without melting or deteriorating. 1 They are essential components in industries that require intense heat.

- Brick Size:230x115x 75 mm STD
- Weight/Bricks: 4.250-4.280 Kg (min)
- 230x115x75/65mm END ARCH
- 230x115x75/65mm SIDE ARCH
- Energy Efficiency
- Improved Productivity
- Longer Equipment Life
- Safer Working Conditions
- Environmental Benefits

Description	INSULATING BRICKS
Chemical Analysis (%)	
Al ₂ O ₃	38 - 40% (Min)
Fe ₂ O ₃	3.5-4.0%
Temperature (°C)	1400 - 1450 °C

- Metallurgy
- Ceramics
- Power Generation
- Chemical Industry
- Glass Industry
- Petrochemical Industry
- Incineration and Waste Management

REFRACTORY BRICKS 30%



Refractory bricks are specialized ceramic materials designed to withstand extremely high temperatures without melting or deteriorating. 1 They are essential components in industries that require intense heat.

- Brick Size: 230x115x25mm
- Weight/Bricks: 3.950 4.100 kg (min)
- Energy Efficiency
- Improved Productivity
- Longer Equipment Life
- Safer Working Conditions
- Environmental Benefits

Description	INSULATING BRICKS
Chemical Analysis (%)	
Al ₂ O ₃	28 - 30 (Min)
Fe ₂ O ₃	4.0 - 4.5%
Temperature (°C)	1100°C

- Metallurgy
- Ceramics
- Power Generation
- Chemical Industry
- Glass Industry
- Petrochemical Industry
- Incineration and Waste Management

REFRACTORY BRICKS 70%



Refractory brick 70% typically refers to a high alumina refractory brick containing approximately 70% alumina (aluminum oxide, Al_2O_3) by weight.

• Brick Size: 230x115x75mm

• Weight/Bricks: 5.2kg

• Brick Size: 230x115x65mm - SIDE ARCH

• 230x115x65mm - SIDE ARCH

• 230x115x75/50mm - END ARCH

• 230x115x75/65mm - END ARCH

- Energy Efficiency
- Improved Productivity
- Longer Equipment Life
- Safer Working Conditions
- Environmental Benefits

Description	INSULATING BRICKS
Chemical Analysis (%)	
Al ₂ O ₃	28 - 30 (Min)
Fe ₂ O ₃	4.0 - 4.5%
Service Temperature (°C)	1100°C

- Metallurgy
- Ceramics
- Power Generation
- Chemical Industry
- Glass Industry
- Petrochemical Industry
- Incineration and Waste Management

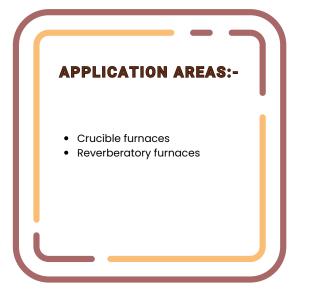
CERAFLUX 11



Ceraflux 11 is a pink powder primarily composed of chlorides and fluorides. It's specifically designed for cleansing and drossing operations in the aluminum foundry industry.

- Protective Layer: Forms a protective layer on the molten aluminum, acting as a barrier between the metal and the atmosphere.
- **Dross Prevention:** Prevents excessive dross formation, which is the oxide layer that forms on the surface of molten aluminum.
- Metal and Gas Loss Reduction: By preventing dross formation, it
 helps reduce the loss of metal and gas pickup during the melting
 process.
- Exothermic Reaction: Undergoes an exothermic reaction, making it easier to remove dross and non-metallic inclusions from the molten metal.

CHARACTERISTIC	SPECIFICATION
Appearance	Powder
Colour	Pink
Qualitative Test - Fluoride	Positive
Qualitative Test - Sulphate	Positive
Mesh + 22 (%)	14.81
Moisture@100-110 °C (%)	0.19



D GASSER



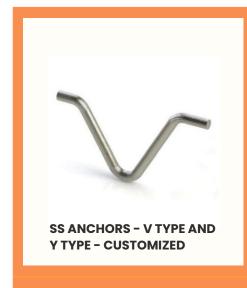
A D-gasser is used to remove entrained gases from drilling fluids. D-gasser is a chemical product, typically a tablet, used to remove gases (like hydrogen) from molten metal.

- Efficient gas removal
- Increased drilling efficiency
- Reduced environmental impact
- Durable construction

CHARACTERISTIC	SPECIFICATION
Appearance	Tablet
Colour	Blue
Evapuration Test @200 °C (%)	83.19
Moisture by Dean and Stark (%)	0.05

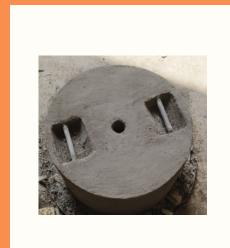
- Aluminum foundries
- Steelmaking
- Copper refining
- Other metal casting processes

MISCELLANEOUS PRODUCTS











PRECAST BLOCKS FOR BURNER AND BOILER -CUSTOMISED