



9001 : 2015
Certified Company

JASH
clayproducts

Manufacturer Of All Types of Acid Proof Bricks,
Tiles and Joint Mortar etc.

Factory Add. : Old Ghuntu Road, Near Volvo
Refractories, Opp. Sona Ceramics, Morbi-363642
Contact No.: +91 99787 20719, +91 90990 20719
Email Id : sales@jashclay.com

ACID PROOF/ACID RESISTANCE/ ANTI ACID TILE TECHNICAL DATA SHEET

DESCRIPTION

Jash Clay Products is manufacturing acid resistant bricks & tiles in different thicknesses as per ASTM C279, IS 4860, IS 4457 & DIN Standard with the help of Dry Process and are used as per the requirement. Our Bricks and tiles can resist highly concentrated acid, low water absorption, highly mechanical Strength, etc. Jash Clay Products backed by more than 15 years of Acid resistance bricks and tiles making experience. These are fine-ground and specifically formulated for density and strength and fired at over 1200°C. This process results in bricks that resist virtually all corrosive liquids and gasses, except for acid fluorides and strong hot caustics.

ACID-RESISTANT BRICKS AND TILES ARE NOWADAYS USED IN THE FOLLOWING FIELDS

- **Industrial fields with chemical attack on buildings**
Lining of floors, trenches, pits and wall areas
- **Pickling Plants**
Lining of pickling tanks for metals, floors, trenches and pits
- **Chemical industry, iron and steel industry, metal industry**
Lining of vessels, reaction vessels, scrubbing towers, neutralization facilities, basins, breakdown vessels, acid storage tanks, etc.
- **Pulp and paper industry**
Lining of bleaching towers, digesters, floors, trenches, etc.
- **Sulfuric acid plants**
Lining of absorption towers, washer, floors, trenches and pits
- **Phosphoric acid plants**
Lining of reactors, thickeners, storage tanks floors, trenches and pits
- **Food industry**
Lining of floors, trenches, pits and wall areas
- **Battery factories**
Lining of assembly and loading rooms, acid mixing plants, neutralization pits, drying rooms
- **Power Stations**
Lining of flue gas cleaning plants, DeNOx plants, trenches, channels, water treatment plants



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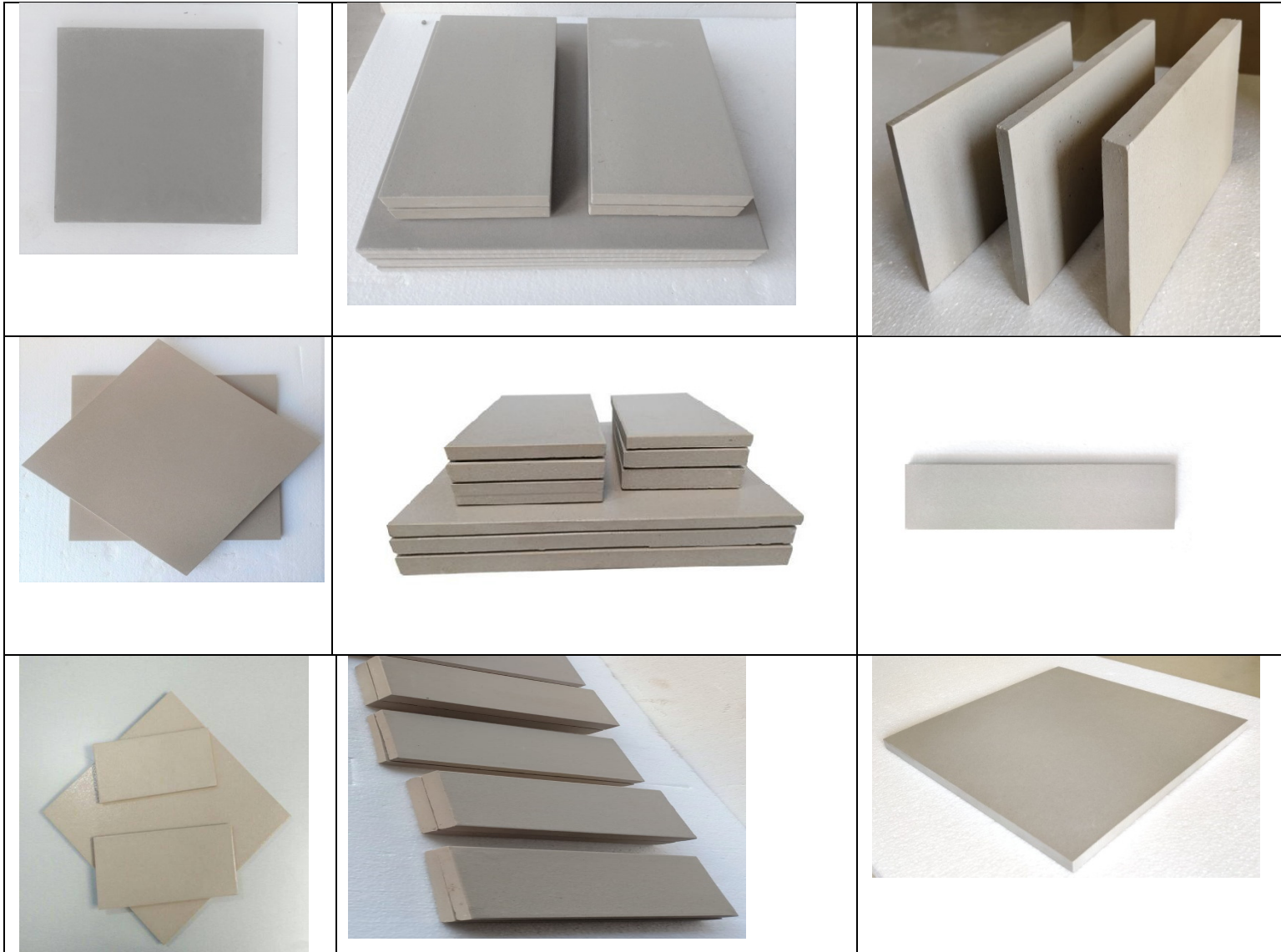
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JASH CLAY INDUSTRIAL TILES





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Our Standard Size for Acid Resistance Bricks:-

SR NO.	SIZE IN (MM) (Length x Width)	THICKNESS (MM)
1	200X100	12,15,20
2	230x115	12,15,20
3	300X300	10,12,15,20
4	400X400	12
NOTE	We are also manufacturing customized size tiles as per customer requirement.	

- Jash Clay Products has the facility to carry out the tests required as per ASTM C279, IS 4860, IS 4457 & DIN Standard. Every consignor of bricks supplied by us is tested thereby ensuring and controlling the quality of bricks.



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SPECIFICATIONS:-

SR NO.	TEST DESCRIPTION	IS 4457:2007	INDUSTRIAL TILES		
			10&12 MM	15 MM	20 MM
(A) DIMENSION QUALITY					
1	Deviation in Length & Width	$\pm 0.75\%$	$\pm 0.6\%$	$\pm 0.6\%$	$\pm 0.6\%$
2	Deviation In Thickness	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$
3	Straightness of sides	$\pm 0.5\%$	$\pm 0.4\%$	$\pm 0.4\%$	$\pm 0.4\%$
4	Rectangularity	$\pm 0.6\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
5	Surface Flatness	$\pm 0.5\%$	$\pm 0.3\%$	$\pm 0.3\%$	$\pm 0.3\%$
(B) Physical Properties					
1	Water Absorption	$<0.5\%$	$<0.5\%$	$<0.5\%$	$<0.5\%$
2	Mohs Hardness		>7	>7	>7
3	Flexural Strength (Avg. MOR)	$>35\text{N/mm}^2$	$>38\text{N/mm}^2$	$>38\text{N/mm}^2$	$>38\text{N/mm}^2$
4	Breaking Strength	$\geq 1300\text{N}$	$>2000\text{N}$	$>4000\text{N}$	$>7500\text{N}$
5	Abrasion Resistance /Deep Abrasion	$<175\text{mm}^2$	$<144\text{mm}^2$	$<144\text{mm}^2$	$<144\text{mm}^2$
6	Skid Resistance	>0.4	>0.6	>0.6	>0.6
7	Density (gm/cc)	>2	>2.2	>2.2	>2.2
8	Moisture Expansion	Nil	Nil	Nil	Nil
(C) Chemical Properties					
1	Resistance to Conc. Acid (wt.loss)	$<1.5\%$	$\leq 1\%$	$\leq 1\%$	$\leq 1\%$
2	Resistance to household Chemical & Swimming Pool Salts	Resistance	Resistance	Resistance	Resistance
3	Stain Resistance	Resistance	Resistance	Resistance	Resistance
(D) Thermal Properties					
1	Thermal Expansion	$<9 \times 10^{-6}\text{K}^{-1}$	$<9 \times 10^{-6}\text{K}^{-1}$	$<9 \times 10^{-6}\text{K}^{-1}$	$<9 \times 10^{-6}\text{K}^{-1}$
2	Thermal Shock Resistance	No Damage	No Damage	No Damage	No Damage



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JASH CLAY ACID & ALKALI RESISTANT TILES

Feature	Advantage	Benefit
Resistance to concentrated Acid –Weightloss < or =1%	Extremely high acid resistance of JASHCLAY Industrial Tiles meeting the stringent specification norms of IS 4457:2007 ensure excellent performance in Acid / Chemical /Alkali [except HF ACID and its derivatives] attack area thus helping corrosion protection of reinforcement concrete & protecting erosion of the structure.	Customer benefitted by the long service life of the structure and enhanced safety .Application area of pollution control & corrosion protection ,lend themselves well to Jash clay Industrial tiles
Low water adsorption < 0.5 %	Helps in Protecting the reinforcement of the underneath concrete structure by restricting the percolation chemicals.	Enhancement of structural service life.

STORAGE & SHELF LIFE

Bricks are to be stored away from water / rain water since dampness on the bricks affects the bonding of the acid proof cements.

HEALTH & SAFETY

While lifting and carrying the bricks, care should be taken that the corners / edges do not cut / damage hands. Normal (wear hand gloves, tight fitting safety goggles and industrial shoes during manual handling)



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WARRANTY

Jash Clay Products strives to ensure that any advice, information or recommendation given are appropriate and correct, it cannot accept any liability directly or indirectly arising out of the products, since the method and place of application of the products are beyond its control. Its guarantee is therefore limited to the quality of materials delivered.