

# METZ ACID BRICK



## DESCRIPTION:

Traditional red shale type acid resistant brick for low absorption, high density and excellent strength.

## FEATURES AND BENEFITS:

- **Chemical Resistant**  
Excellent resistance to attack from a wide range of chemicals including concentrated mineral acids (except hydrofluoric)
- **Abrasion Resistant**  
High wearing properties under severe conditions.
- **Impact Resistant**  
Resists mechanical damage due to high impact loadings.
- **Thermal Shock Resistant**  
Will withstand damage due to sudden change in temperature. For substantial thermal shock refer to Metz for Carbon Brick.

Note: Metz Fireclay Acid Brick available for extra chemical, abrasion and thermal resistance.

## RECOMMENDED:

- Flooring and Bund Areas
- Towers and Columns
- Vessels and Tanks
- Sewerage Treatment Plants and Lines
- Chimney and Flue Gas Linings
- Hoppers and Chutes

## NOT RECOMMENDED:

- Exposure to hydrofluoric acid or other fluoride solutions. Refer to Metz for carbon bricks.
- Exposure to hot caustic solutions. Refer to Metz for Carbon bricks.
- Substantial thermal shock. Refer to Metz for Carbon bricks.

## PHYSICAL PROPERTIES: *Conforms to ASTM C279 for Type III*

Porosity	3.5%
Water Absorption ASTM C20	1.0%
Bulk Density	2.39 g/cc
Modulus of Rupture ASTM C67	15 MPa
Cold Crushing Strength	135 MPa
Acid Solubility	less than 5%

Calcined Basis

Chemical Analysis

SiO <sub>2</sub>	64.21%
Al <sub>2</sub> O <sub>3</sub>	22.06%
TiO <sub>2</sub>	0.97%
Fe <sub>2</sub> O <sub>3</sub>	6.32%
CaO	0.32%
MgO	1.92%
Na <sub>2</sub> O	0.30%
K <sub>2</sub> O	3.9%



Acid Proofing & Industrial Flooring • Specialty Ceramic Tiles



