

METZ FIRECLAY ACID BRICK



DESCRIPTION:

Metz Fireclay Acid Brick complies with ASTM C-279 for Type III, for use where minimum absorption and maximum acid resistance are required.

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.
- **High Temperature Resistant**
Suitable for service temperatures up to at least 600°C (depending on conditions and chemicals).

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 Brick.
- Exposure to hot caustic solutions. Refer to Metz for Carbon brick.
- Substantial thermal shock. Refer to Metz for Carbon Brick.

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

Porosity	3.5%
Water Absorption ASTM C20	1.5%
Bulk Density	2.37 g/cc
Modulus of Rupture ASTM C67	15 MPa
Cold Crushing Strength	103 MPa
Young's Modulus	6 x 10 ⁴ MPa
Acid Solubility	less than 5%
Thermal Conductivity w/m ^o K	
at 150°C	1.21
at 315°C	1.29
at 650°C	1.39
at 870°C	1.53

Calcined Basis

Chemical Analysis

SiO ₂	66.35%
Al ₂ O ₃	28%
TiO ₂	1.70%
Fe ₂ O ₃	0.40%
CaO	0.35%
MgO	0.65%
Na ₂ O	0.30%
K ₂ O	2.25%



Acid Proofing & Industrial Flooring • Specialty Ceramic Tiles



