

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).
- **Extruded**
Available in a wide range of standard shapes.

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*

Water Absorption ASTM C20	0.5%
Bulk Density	2.26 g/cc
Modulus of Rupture	28 MPa
Compressive Strength	138 MPa
Young's Modulus	5.9 x 10 ⁴ MPa
Acid Solubility	6%
Thermal Conductivity	1.3 w/m ² K

Typical Chemical Data

SiO ₂	62%
Al ₂ O ₃	31.5%
TiO ₂	1.3%
Fe ₂ O ₃	1.7%
Other	3.5%



Your Acid Proofing & Industrial Flooring Specialist

