

DURO™ TYPE II-E Acid Resistant Brick

ACID RESISTANT FIRECLAY BRICK

DURO™ Type II-E Acid Proof Brick meet ASTM Specification C 279 Type II for acid-proof masonry. DURO Brick are available in many more sizes and shapes than red shale brick, making them more adaptable to acid resistant masonry construction of various size vessels and dished heads.

All DURO Brick are true refractory, and therefore, are preferred for corrosion resistant work at high temperatures, in contrast to red shale products

TYPICAL PHYSICAL DATA

Bulk Density	139 lb/ft ³	2,229 kg/m ³
Compressive Strength	20,000 psi	138 MPa
Coefficient Thermal Expansion	2.6*10 ⁻⁶ in/in/°F	4.7*10 ⁻⁶ mm/mm/°C
Modulus of Rupture	4,000 psi	28 MPa
Tensile Strength	1,200 psi	8.3 MPa
Poisson's Ratio	0.27	0.27
Thermal Conductivity	9 BTU/in/hr-ft ² -°F	1.4 W/M-K
Water Absorption	8%	8%
Young's Modulus	9.2*10 ⁶ psi	6.3*10 ⁴ MPa
Acid Solubility	12%Max	12% Max

**The above physical data was derive by using ASTM Test Specifications C-20, C-133, C-279 and C-885*

TYPICAL CHEMICAL DATA

WEIGHT

Alumina	Al ₂ O ₃	28.7%
Silica	SiO ₂	63.8%
Titania	TiO ₂	1.4%
Iron Oxide	Fe ₂ O ₃	2.6%
Other		3.5%

NOTE: The information contained in this bulletin is believed to be accurate and reliable but is not to be construed as implying any warranty or guarantee of performance. Data are subject to reasonable variations and should not be used for specification purposes.

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