



CERAMOX

A division of
Wonderstone Limited

ADVANCED CERAMIC TECHNOLOGY

... OUT OF AFRICA

TECHNICAL PRODUCT APPLICATIONS

Ceramox specializes in providing wear solutions that can extend the life of your equipment and keep your systems at a maximum operational level. Our industrial workhorse, and most frequently specified wear material is our alumina ceramic tile. It is a fine-grain, high-grade alumina made from exceptionally pure uniformly controlled alpha aluminum oxide. We have engineered it to be one of the best wear materials available for fine particle abrasion.

CERAMOX Alumina Wear Linings



Our tile offers excellent mechanical properties, superior wear resistance, and desirable corrosion performance.

We manufacture alumina tiles in a variety of standard sizes and shapes that can be installed economically in the shop or in the field. Our engineers can work with you to determine the appropriate attachment method for your operating environment.

Alumina Ceramic – Typical Values

Property		SI Units
Alumina Content	92%	Weight %
Density	3.52	g/cm ³
Young's Modulus, 20°C	270	GPa
Shear Modulus, 20°C	110	GPa
Hardness Vickers, 20°C	9.0	Gpa
Flexural Strength, 20°C	275	Mpa
Compressive Strength	1.77	Gpa
Fracture Toughness, 20°C	3.75	Mpa
Thermal Conductivity, 20°C	18	W/mk
Thermal Expansion, 400°C	8.30	x 10 ⁻⁶ /°K
Maximum Use Temperature	1250	°C
Water Absorption	Nil	
Gas Permeability	Nil	
Grain Size (Equivalent Diameter)	3.4	μ



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Group of Companies

ISO 9001:2000 ISO 14001:2004

SAINT-GOBAIN
ADVANCED CERAMICS



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CERAMOX ALUMINA WEAR LININGS

We Sell Solutions

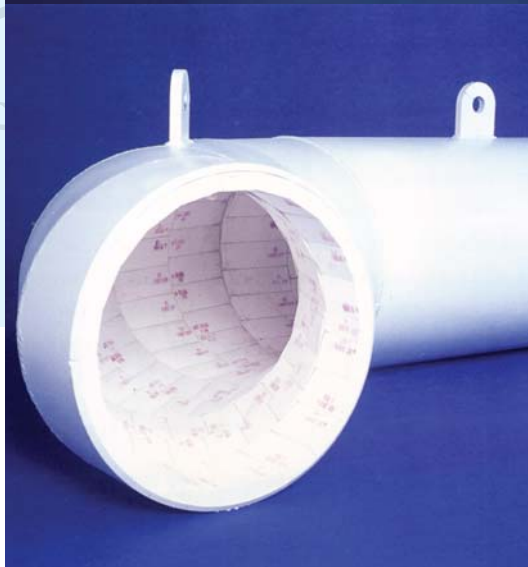
Analyzing a wear problem is a complex process. Our design engineers understand wear problems and specify solutions to suit your operational environment. Material properties, engineering tolerances, attachment methods, and material costs are all considered in a Ceramox wear solution.

Applications

- Chutes/Hoppers
- Classifier Cones
- Cyclone Separators
- Elbows
- Fan Housing & Blades
- Lined Piping
- Nozzles
- Wear Panels

Markets

- Coal-fired Power Generation
- Abrasive Material Handling
- Chemical Processing
- Food Processing
- Iron/Steel Manufacturing
- Mineral Processing
- Powder/Bulk Solids Conveying
- Pulp & Paper Manufacturing
- Pulverizing & Grinding



Standard Tiles

- 150x25x6mm
- 150x50x6mm
- 150x100x6mm
- 150x25x12mm
- 150x50x12mm
- 150x100x12mm
- 150x50x20mm
- 150x100x20mm
- 150x50x25mm
- 150x100x25mm
- 150x100x50mm

Weld-on-Tiles

- 150x50x12mm
- 150x100x12mm
- 150x100x20mm
- 150x50x25mm
- 150x100x25mm
- 150x50x50mm
- 150x100x50mm

Hexmat

- 150x150x6mm
- 150x150x10mm
- 150x150x12mm

Pipe Tiles

- 150x35/31x12mm
- 150x42/39x12mm
- 150x47/45x12mm
- 150x53/50x12mm
- 150x35/27x25mm
- 150x42/36x25mm
- 150x47/43x25mm
- 150x53/47x25mm

Corner Tiles

- 15x55x20mm
- 15x65x25mm



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