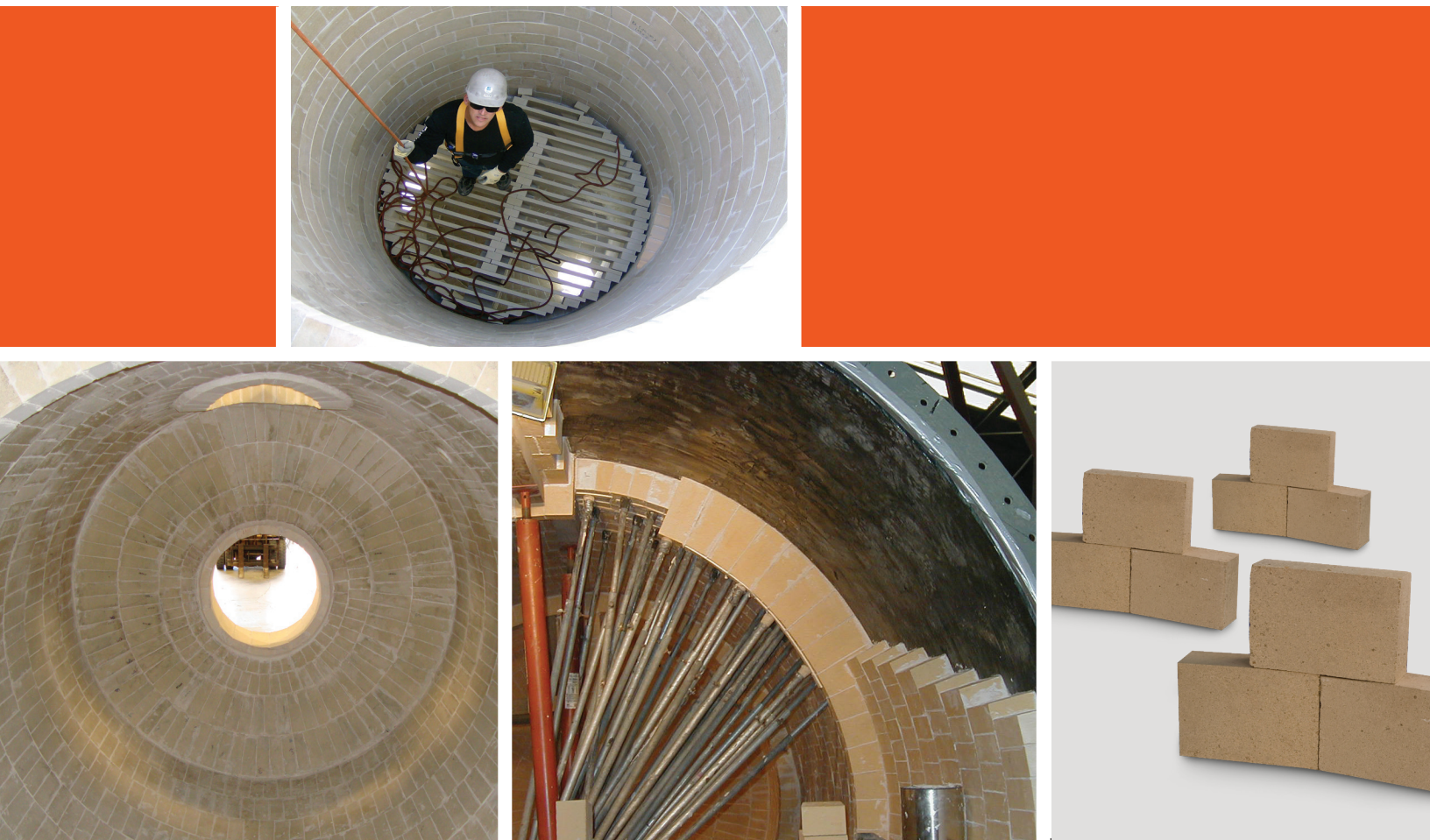


## ACID-PROOF BRICK

Solutions for Corrosive Applications

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A leader in acid proof and corrosion solutions.



## Experience Makes All the Difference

At Knight Material Technologies, our goal is to provide engineered solutions by focusing on specific customer needs. By applying our extensive experience in the industry and on-going product development, Knight Material Technologies has developed brick lining materials capable of providing reliable service in the most demanding corrosive applications.

We offer KNIGHT-WARE® Fireclay Acid-Proof Brick in standard and custom designs. It is available in more shapes and sizes than any other acid-proof brick on the market, making it especially adaptable to acid-resistant masonry construction of various vessel sizes as well as for dished heads and other complex geometries.

KNIGHT-WARE brick meets ASTM specification C-279 for acid-proof masonry. And, all KNIGHT-WARE brick are true refractories. That means they will maintain their corrosion-resistant qualities in high temperature environments.

Whatever your corrosive application, Knight Material Technologies has the acid-proof solution.

## SOLUTIONS

Knight Material Technologies is the single source for the most demanding corrosion applications. Our products and services are available worldwide through our global network of manufacturing and outsourcing. We focus on providing responsive, customer-focused solutions for complex situations using the most advanced technology and materials.

Our goal is to offer clients a complete package of corrosion resistant process equipment protection services, including engineering, design, installation, implementation and supervision. We provide support and service after install to make sure you are protected. The services and materials we offer will not only help protect your facility and workers, but will help protect the environment and especially meet EPA and other government regulations.

Knight Material Technologies is a worldwide leader in chemical and corrosion protection.



Knight Material Technologies offers acid-proof brick in a variety of materials to withstand the most demanding corrosive environments.



# Custom and Standard Bricks

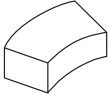



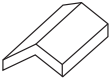
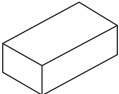


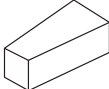


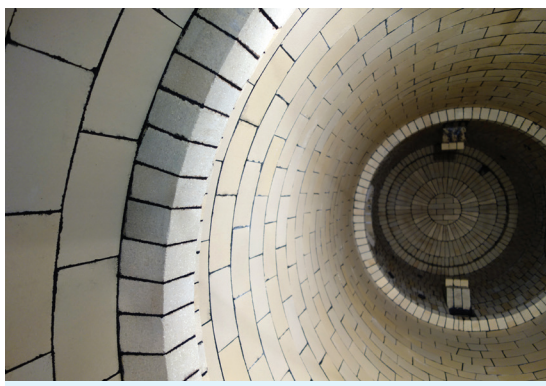
NOTE: All acid-proof brick manufactured conforms to ASTM Spec. C-279.

## AVAILABLE COMPOSITIONS AND PRODUCT BULLETINS

PRODUCT	BULLETIN
DURO® BRICK	B-104
DURO® TYPE III-E BRICK	B-205 A
KNIGHT-WARE® AP-302	B-120
KNIGHT-WARE® PV33P	B-204
KNIGHT-WARE® WR	B-123
PERMANITE® RESIN TILE	B-109, B-121
CORESITE™ BRICK	B-111

# A Global Leader in Acid-Proof Fireclay Brick

CUSTOM BRICK			
		Sizes	Shapes
CIRCLE BRICK		9 x 4 1/2 x 3	Radial are custom made to fit given tower diameter
CIRCLE BRICK		8 x 3 3/4 x 4 1/2	Radial are custom made to fit given tower diameter
BOOK TILE		9 x 4 1/2 x (varies) x 1 1/2", 2", 2 1/2", 3" Thk. 9 x 6 x (varies) x 1 1/2", 2", 2 1/2" Thk. 15 x 4 1/2 x (varies) x 1 1/2", 2", 2 1/2", 3" Thk.	
HEAD BRICK		Dished, flanged & dished, 2:1 elliptical, hemispherical, cone	Custom made to fit the dish and knuckle radii dimensions
BAFFLE BRICK		Extensive selection	Custom designed by application
STANDARD BRICK			
STRAIGHT BRICK		9 x 4 1/2 x 2 1/2 9 x 4 1/2 x 3 9 x 6 x 3	N/A
ARCH BRICK		9 x 4 1/2 x 2 1/2 9 x 4 1/2 x 3 9 x 6 x 3	#1A #2A #3A #4A
WEDGE BRICK		9 x 4 1/2 x 2 1/2 9 x 4 1/2 x 3 9 x 6 x 3	#1-XW #1W #2W #3W
KEY BRICK		9 x 4 1/2 x 2 1/2 9 x 4 1/2 x 3 9 x 6 x 3	#1K #2K #3K #4K





# Corrosion-Proof Mortars

## PERMANITE® RESIN MORTAR

An all-purpose furan resin mortar. Excellent for non-oxidizing acids, alkalis, and organic solvents. Available in a variety of setting speeds to suit the installation.

## ACIDSIL™ MORTAR

An improved sodium silicate type mortar with greater water resistance and higher physical strength. Resistant to crystallization, cracking and vitrification to 1900°F.

## ACIDSIL™ "K" MORTAR

An improved potassium silicate type mortar with greater water resistance and higher physical strength. Resistant to crystallization, cracking and vitrification to 1900°F.

## ACIDSIL™ "HK" MORTAR

An alumina calcine mortar with great water resistance and bearing strength. Resistant to crystallization, cracking and vitrification to 2700°F.

## CORESITE™ MORTAR

An especially compounded hydraulic type mortar. Resistant to chemical attack by acids, alkalis, salt solutions and organic solvents.

## RESIBOND® MORTAR

A selected vinylester resin mortar with excellent adhesion to ceramics and metals. Satisfactory for dilute acids, alkalis and oxidizing agents.

## VET 94™

A vinylester mortar for chloride applications. Available in a range of setting properties.

CREATING VALUE FOR CUSTOMERS BY PROVIDING NON-METALLIC SOLUTIONS TO THE TOUGHEST CORROSION PROCESS APPLICATIONS.



# GLOBAL OFFICES

## Superior Dual Laminates

12875 261A Street Maple Ridge, BC  
V4R1C4 Canada  
Sales: (570) 241-1948  
Office: (604) 944-6260

## Electro Chemical Manufacturing

150 Broad Street,  
Emmaus, Pennsylvania 18049  
Phone: (610) 965-9061  
Office: (800) 235-1885

## Knight Material Technologies Headquarters

PO Box 30070  
5385 Orchard View Drive SE  
East Canton, Ohio 44730  
USA  
Phone: +1 (330) 488-1651  
Fax: +1 (330) 488-1656  
Email: [info@knightmaterials.com](mailto:info@knightmaterials.com)

## Houston Office

14452 Smith Road,  
Humble, Texas 77396  
USA

## Chile Office

Av. Apoquindo 4700 Oficina 1101  
Pisa 11  
Las Condes Santiago, 7560969, Chile  
Phone: +56 (2) 2773-7200  
Email: [chile@knightmaterials.com](mailto:chile@knightmaterials.com)

## Australia Office

Collins Square, Tower Four  
Level 18, 727 Collins Street  
Melbourne, VIC, 3008  
Australia  
Phone: +61 (8) 6658-4949  
Email: [australia@knightmaterials.com](mailto:australia@knightmaterials.com)

# CAPABILITIES

Knight Material Technologies works closely with our customers in taking a comprehensive look at their applications. We offer complete solutions for the corrosion and processing application using innovative custom designs or standard configurations and materials.

Our design and application expertise encompasses decades of engineering knowledge, experienced field crew installation, and maintenance and market leadership within the industry.

Knight Material Technologies offers value-added service with engineering support, custom design capabilities, and personable customer service. We are your single-source supplier of custom design packages. Our focus is to provide customers with superior products and materials, world-class engineering support, high-quality installation and responsive maintenance.

24-Hour Service: Call (330) 313-6372



Visit us on the web: [knightmaterials.com](http://knightmaterials.com)

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