

## K-Ceramic Lining Products

## FOR EXTREME ABRASION PROTECTION

K-CERAMIC LINING PRODUCTS provide a solution to extreme abrasion caused by the transport of bulk materials, slurries and dust. Each application must be evaluated, taking into account the size of material, velocity and feed details. All of these factors determine the choice of system used.

Hardness is a good indicator of a material's ability to withstand mechanical wear and abrasion. Ceramics

composed of high Alumina content (Al<sub>2</sub>O<sub>3</sub>) pressed and fired to achieve a dense ceramic liner have a hardness of approximately 9 on the MOHS scale (Diamond = 10).

K-CERAMIC LINING PRODUCTS cover a wide range of tiles of varying thickness, sizes and shapes for fixing by welding, bolting or epoxy adhesion. Cast shapes designed for special purposes and composite rubber backed mats are also available so that material impact may be tolerated.



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## Technical Data

Item		Content		
Alumina content		92%		
Density		≥3.62g/ cm³		
Abrasion loss	Alumina tiles	0.014cm <sup>3</sup> / 10 minutes		
	Alumina mosaic	0.022cm <sup>3</sup> / 10 minutes		
Hardness	Rockwell A hardness	≥87 HRA		
	MOH hardness	9 grade		
Impact strength		≥850 MPA		
Bending Strength		≥290 MPA		
Thermal conductivity		20W/ MK		
Thermal expansion coefficient		7.2×10-6/ MK		
Water absorption		none		
Surface		Smooth, clear, pure white		
Size		Normal size and custom-design can be supplied		

Item	Size	Colour	Remark
Alumina Mosaic	Square 10×10, 20×20, 30×30, 40×40mm		
	Hexagon 12×12, 11.5×11.5,	white/red	Thickness can be adjusted
	19.5×19.5mm		
Alumina Cylinder	12.7, 20, 30, 32, 40 DIA	white	Height can be adjusted
Alumina pipe/tube	5mm-500mm DIA	white	Length can be adjusted

Weld on for Ceramic Alumina tiles with hole	Adhesive Glue for Silk	
Lock Slot for Ceramic Alumina tile	Adhesive Glue for Rubber	
Adhesive Glue for Net	Adhesive Glue for Plastic	

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