CERAPIPE® CERAMIC LINED PIPE

Ceramic Lined Pipe for Pneumatic Conveying

Ceramic Lined Wye & Tee Joints

Ceramic Lined Extensions & Reducers

Monolithic Ceramic Elbows

Wear Monitoring

Ceramic Liner with GRP Housing

CERAFLEX® Flexible Ceramic Hose

Ceramic Orifice Plate
**FEATURES & BENEFITS**

**SOLID CERAMIC INTERNAL PARTS**
- Abrasion resistant ceramics ensure a long service life
- Monolithic ceramic liners available in many sizes
- Ceramic liner of alumina Al2O3 or silicon carbide SiC
- Solid ¼” (6 mm) ceramic liner (no coating)

**DESIGN OPTIONS AVAILABLE**
- Suitable for replacement of both steel and lined pipe
- Inlet and outlet can be protected with a ceramic collar disk
- Flanges & housings available in various dimensions and materials
- Wide range of ceramic lined components to suit any requirement
COMMON APPLICATIONS

Steel Mills & Blast Furnaces
- Rutile, substitute fuels, soot (blast furnace)
- Sinter dust (sinter plant)
- Coat dust (PCI-EAF)
- Lime, magnesium (pig iron desulphurization)

Foundries
- Molding sand

Metal industry
- Suction systems (e.g. metal swarf)

Plastics Industry
- Pneumatic transportation of glass fiber reinforced plastics

Food Industry
- Pneumatic transportation of mineral feed, rice, and muesli

Sanitation
- Pneumatic transportation of enamel

Waste Incineration Plants
- Suspension in the HCL pre-washer
- Flue Dust

Glass Plants
- Shards, sand, quartz

Cement Plants
- Clinker dust, lime, cement, slag, flue dust, plaster

Pigment Production
- Titanium oxide, iron oxide

Dye Production
- Titanium oxide suspension
- Iron oxide suspension

Substitute For Deflection Pots
- Pipe elbows with small radii
CERAMIC MATERIALS

Hardness and Wear Resistance

Abrasion from entrained solids in liquid flows, high viscosity slurries, pneumatic conveying, and many other demanding services can drastically reduce the life of most traditional metal pipes. Lined pipes utilizing ceramic materials that exhibit hardness values substantially higher than most metals can maximize the life of the pipe.

Corrosion Resistance

Compared to other wear resistant materials, ceramic materials are much more corrosion resistant and can be used in a broad range of corrosive applications. Ceramics are completely resistant to most solvents, aqueous brines, and acids, even at relatively high temperatures.

Thermal Shock Resistance

Ceramic components maintain their shape and strength as well as physical characteristics up to extremely high temperatures. However, rapid changes in temperature (thermal shock) can prove challenging for ceramics.

CERAPIPE® ceramic lined pipes are available in several materials to handle even the most demanding applications.
TECHNICAL DETAILS

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CERA SYSTEM is the leading technological pioneer in industrial valves and pipe components with ceramic linings. Conventional valve materials cannot meet the demands of all industrial applications. Where they fail, high-performance ceramic materials open up new opportunities. Ceramics prove to be beneficial wherever standard materials reach their limits with respect to wear resistance, corrosion, and high temperatures.