

■ **Application:**

TAT[®] Series Wear Resistant Ceramic Tube are mainly used as the lining in the pipeline of conveying ore fines, cement, coal and other hard material. Compared with alumina ceramic tile, the installation cost is much lower and the life is much longer.

■ **Regular sizes:**

Specifications(mm)	Outer Diameter(mm)	Inner Diameter(mm)	Thickness (mm)
Φ25	Φ25	Φ10	7.5
Φ30	Φ30	Φ15	7.5
Φ40	Φ40	Φ20	10
Φ50	Φ50	Φ37	6.5
Φ65	Φ65	Φ52	6.5
Φ80	Φ80	Φ67	6.5
Φ100	Φ100	Φ84	8
Φ125	Φ125	Φ109	8
Φ150	Φ150	Φ134	8
Φ200	Φ200	Φ184	8
Φ250	Φ250	Φ230	10

Remark: the biggest OD is up to 500mm and the wall thickness is from 6mm up to 50mm.

Remark: Other sizes are available upon request.

■ **Technical Specification:**

Technical Index	TAT92 [®]	TAT95 [®]
Al ₂ O ₃ Content (%)	≥92	≥95
Fe ₂ O ₃ Content (%)	≤0.2	≤0.15
Hardness (Mohs)	9	9
water Absorption (%)	≤0.02	≤0.02
density (g/cm ³)	≥3.60	≥3.65

■ **Package:**

In wooden box with net weight 20-24MT/20'FCL.

■ **Key benefits:**

- (1) Superior wear resistance compared with other material.
- (2) Excellent wear resistance against acid and alkali.
- (3) Excellent resistance against big hard material without breakage.
- (4) Smooth surface makes excellent flow speed and avoid blacking the pipe system.
- (5) Reduce the frequency of maintenance to the facility, so as to reduce the cost and labor expense.
- (6) Excellent thermal shock resistance, the pipe can be used at the temperature up to 800 °C.



Tecera™ International Co.,Ltd.

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Products View



TAT[®] Wear Resistant Ceramic Tube

(Outer diameter from 25mm up to 750mm)



TAT[®] Wear Resistant Ceramic Bend/Elbow



TAT[®] Wear Resistant Ceramic Three Links (Tees)



TAT[®] Wear Resistant Cone-Shaped Tube



Package of the Ceramic Tube(For Export)

More Information for Further Study...



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TAT[®] Wear Resistant Ceramic Tube

Alumina pipe-Ideal abrasion resistant ceramic liner

ISO Pressed alumina is an extremely dense ceramic material that has excellent resistance to both sliding and impact abrasion. The exceptional toughness and durability of alumina pipe has made it the recognized standard for long term economic lining in industrial equipment subject to high wear. ISO Pressed alumina ceramic lining is ideally suited for the most demanding slurry and pneumatic applications.

Characteristic:

Good wear resistant property and long service life

Smooth surface, low friction coefficient, low density and light weight

Resistant to all kinds of acid, alkali and salt

Hardness is only second to diamond

Industries served:

Power industry (coal fired & biomass)

Coal mine and preparation plant

Cement & Asphalt processing

Water & Waste water treatment

Mineral processing

Steel industry (more info. as below table)



Steel Making	
System	Application
Material Conveying System	hopper
	bunker lining
Compounding Ingredients System	mixing bin
	primary mixing drum
	secondary mixing drum
Sintered Materials Conveying System	mineral processing hopper under vibrating screen
Dust Removal & Discharge System	long distance mineral processing hopper and bunker
	dust removing pipe
	dust collecting pipe
	machine tail dust removing pipe



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TAT[®] Wear Resistant Ceramic Bend/Elbow

Integrated Alumina Ceramic Bends/Elbows

The coal will bring great impact to the equipment during transportation in the coal handling system of power station, so the alumina ceramic tiles is not available and they will fall off by large area.

The valve in the desulfurization system can change the follow during the switching process, so the slurry with grain at high speed will wear out the pipe at the ends of valves. The liquid in the tube contains much sulfite which is very corrosive, so usually nonmetallic pipes like rubber tubes

and pvc pipes are used to avoid corrosion, but the wear resistance of these tubes are poor that the straight pipe at the ends of valves always worn out. The integrated alumina pipes which resist abrasion and corrosion are developed to well solve the problems of abrasion.

Because the lined ceramic tube is one piece, the slurry couldn't permeate through it, moreover, the alumina tube has high hardness and the process by isostatic pressing dry powder is favorable to the uniformity of ceramic crystal structure, so its wear resistance is better than ceramic tile's with the same material.

The weakest place is the gap between each stucked tiles during material handling. The material grains not only wear the pipe but also have impact on it. This is why the pipelines lined by tiles are easily worn out and fallen off.

The experiment shows that the service life of ceramic tube is at least 5 times longer than ceramic tiles of the same thickness.



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