



# Alumina for Superior Performance & Component Life



## Leaders in Advanced Technical Ceramics

CoorsTek is a leading manufacturer of engineered technical ceramics serving almost every industry in the global economy. From advanced material design and production to our varied forming and finishing operations, CoorsTek is vertically integrated throughout the manufacturing process.

CoorsTek continually develops new materials and processes to provide the technical base for our diverse array of products. Whether your company is global or domestic, CoorsTek works to serve you locally — supporting your business with over 500,000 square meters of manufacturing space across four continents.

## Precipitator Insulator Products

CoorsTek originally developed high-purity alumina insulator products in the 1960s to replace products manufactured with lower-grade electrical porcelain. In the early 1970s, CoorsTek commercialized high-grade alumina ceramic insulator products as the industry standard for high-performance and reliable operation of electrostatic precipitator units. CoorsTek high-purity alumina ceramic offers much greater mechanical strength and better electrical and chemical resistance properties than electrical-grade porcelain, providing long lasting, cost-effective electrostatic precipitator insulator performance.

## Specifications

Backed by our commitment to engineering excellence and responsive customer service, CoorsTek manufactures components to meet your exact specifications:

### Superior Mechanical Strength

CoorsTek high-purity alumina provides enhanced mechanical strength at all precipitator operating temperatures versus weaker electrical porcelain alternatives.

### Excellent Electrical Resistance Properties

CoorsTek alumina facilitates unparalleled electrical insulation at all precipitator operating temperatures — even in the most severe operating environments.

### Advanced Chemical and Abrasion Resistance

Harder than all metals and most man-made materials, high-purity alumina offers outstanding resistance to abrasion and to corrosion from acids and chemically reactive particulates.



### Product Applications

Engineered to perform in extreme, hostile electrostatic precipitator environments, CoorsTek high-purity alumina ceramic works exceptionally well for discharge electrode system support insulators, rapping system insulators, feed-through bushing insulators, and anti-sway insulators. Providing maximum strength and volume resistivity, even at high temperatures for prolonged periods, CoorsTek high-purity alumina ceramic is the insulator material of choice for a wide range of environmentally regulated industries:

#### Power Generation

- Coal-fired plants
- Oil-fired plants

#### Rock Products Processing Plants

- Portland cement
- Lime, etc.

#### Pulp, Paper, and Wood Products Mills

- Salt, cake, and wood waste boilers

#### Chemical Processing Plants

- Sulfuric acid de-misting, etc.

#### Steel Mills

- Iron ore sinter plants
- Coal coking plants
- Open hearth
- Basic oxygen furnaces

#### Nonferrous Metals Processing Plants

- Copper smelting

#### Oil Refineries

- Catalytic cracker units

#### Municipal and Industrial Waste Incineration Plants

To obtain CoorsTek design and engineering assistance, pricing, and delivery information, contact your CoorsTek technical sales representative at +1 303 271 7100.

# Proven Performance for Precipitators

SHEDED

INSULATORS			
DESCRIPTION	OD	ID	LENGTH w/ Caps or Rods if Applicable
3 Shed	6.750	3.175	9.687
4 Shed	7.000	3.150	10.375
5 Shed	5.984	2.992	10.827
6 Shed Assy - Tree	6.000	2.000	10.875
11 Shed Assy - GLZ	3.125	0.000	15.000
10 Shed - GLZ	3.500	0.000	17.750
12 Shed Assy - GLZ	6.000	1.875	18.375
11 Shed	3.071	0.000	19.685
6 Shed Assy	6.890	3.150	20.180
8 Shed Assy	3.330	0.000	22.244
28 Shed Assy - GLZ	3.625	1.125	33.000
20 Shed Assy - GLZ	3.813	1.500	36.000
7/21 Shed Assy - GLZ	7.500	2.625	36.375
20 Shed Assy - GLZ	3.813	1.500	41.250
Cylinder Insul - GLZ - ID Angle	17.000	14.750	14.562
Cylinder Insulator	17.000	14.750	14.665
Cylinder Insulator	16.125	13.875	20.000
Cylinder Insulator	16.875	14.625	20.000
Cylinder Insulator	16.750	14.375	20.000
Cylinder Insulator - GLZ	14.000	12.000	20.500
Cylinder Insulator	15.250	12.875	21.000
Cylinder Insul w/ Lip	12.000	9.861	23.000
Cylinder Insulator	19.000	17.000	24.000
Cylinder Insul - GLZ - Socket Pipe	14.250	13.000	27.000
Feed Thru	3.750	1.375	12.000
Feed Thru	15.000	2.750	14.188
Feed Thru Assy	3.812	1.500	24.000
Feed Thru	3.813	1.500	30.000
Feed Thru	3.812	1.500	30.500
Feed Thru Assy	3.813	1.500	41.250
Conical Insul - GLZ - Funnel	12.376	11.314	16.500
Conical Insul	16.929	9.449	18.701
Conical Insul	18.110	12.480	19.685
Conical Insul	14.750	10.500	20.000
Conical Insul - GLZ	20.612	8.998	23.622
Conical Insul	18.000	12.000	24.000
Conical Insul	19.173	16.750	24.000
Conical Insul	14.750	10.500	27.559

SUPPORT

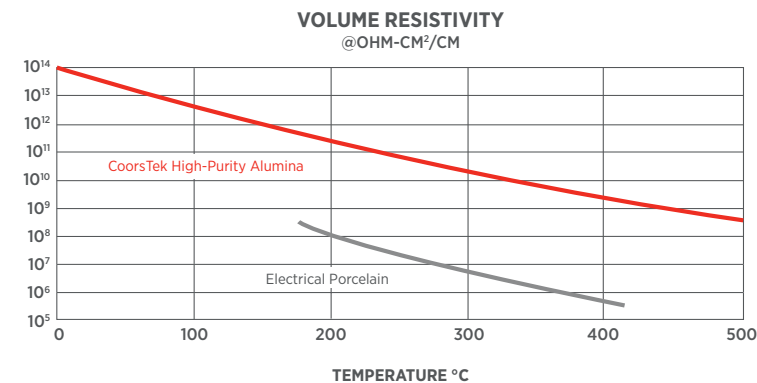
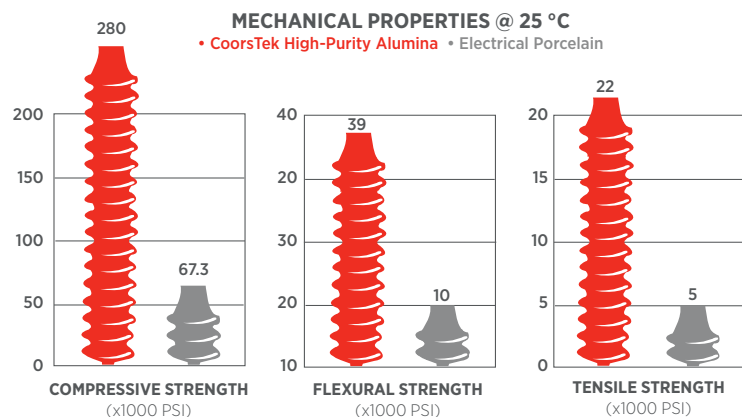
FEED THRU

CONICAL

RAPPER RODS		
DESCRIPTION	OD	LENGTH
Rod	2.000	21.125
Rod	2.500	36.024
Rod	2.000	24.000
Rod - Chamf Ends	1.500	16.000
Rod	2.000	30.000
Rod	1.875	24.000
Rod - Notched	2.165	30.709
Rod - Notched	3.000	20.500
Rod - Notched	3.000	30.000

ANTI-SWAY BARS		
DESCRIPTION	WIDTH	LENGTH
Flat - Bolt Holes	3.000	17.500
Flat - Bolt Holes - Chamf Ends	3.000	17.500
Flat - GLZ	3.000	17.500
Flat - Chamf Ends - GLZ	3.000	17.500

TAPERED RAPPER - Shims are not included with rapper			
DESCRIPTION	OD	Tapered End OD	LENGTH
Tapered Rapper	2.000	1.610	17.500
Tapered Rapper Assy	2.500	0.000	33.750
Tapered Rapper	2.031	1.500	24.250
Tapered Rapper	2.031	1.500	30.250
Tapered Rapper	2.031	1.500	36.250
Tapered Rapper	2.031	1.500	40.250



The chart is intended to illustrate typical properties. Engineering data is representative. Property values vary with method of manufacture, size, and shape of part. Any suggested applications are not made as a representation or warranty that the material will ultimately be suitable for such applications. The customer is ultimately responsible for all design and material suitability decisions. Data contained herein is not to be construed as absolute and does not constitute a representation or warranty for which CoorsTek assumes legal responsibility. CoorsTek is a registered trademarks of CoorsTek, Inc.



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