

**OpX™**

CoorsTek exclusive  
OpX manufacturing  
and quality system

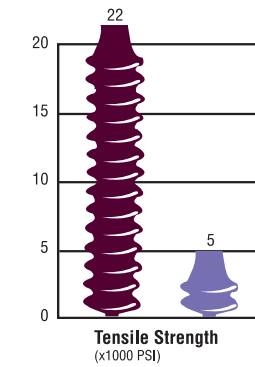
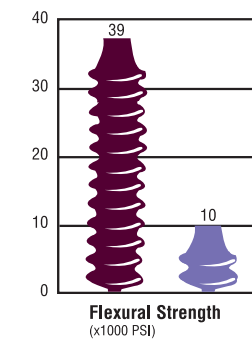
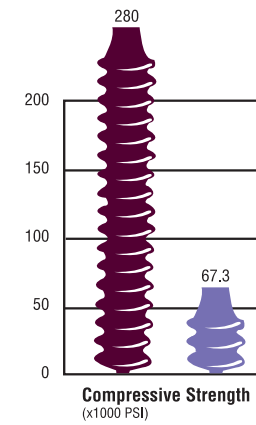


Quick-Turn  
Prototyping and  
Manufacturing

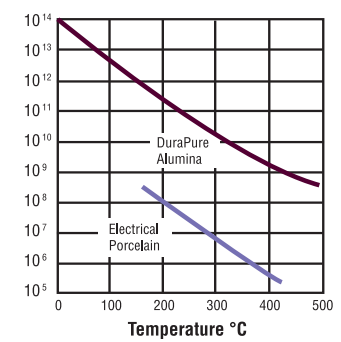
**PROVEN PERFORMANCE FOR PRECIPITATORS**

**Mechanical Properties @ 25 °C**

- CoorsTek DuraPure™ High-Purity Alumina
- Electrical Porcelain



**Volume Resistivity  
@OHM-CM²/CM**



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. ANY WARRANTY OR REPRESENTATION FOR WHICH COORSTEK IS RESPONSIBLE SHALL BE SUBJECT TO A SEPARATELY NEGOTIATED AGREEMENT.

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**ELECTROSTATIC PRECIPITATORS**

## DURAPURE<sup>®</sup> ALUMINA FOR

## SUPERIOR PERFORMANCE & COMPONENT LIFE

### Leaders in Advanced Technical Ceramics

CoorsTek is one of the world's largest manufacturers of technical ceramics and serves 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.

Founded in 1910, we initially specialized in manufacturing scientific labware. Today, we are continually developing new materials and processes that provide the technical base for our diverse array of products. With over 20 facilities worldwide and more than two million square feet (200,000 square meters) of manufacturing floor space, we are ready to serve our customers wherever they work.

### 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.

Our current DuraPure™ high-purity alumina ceramic offers much greater mechanical strength and better electrical and chemical resistance properties than electrical-grade porcelain in electrostatic precipitator applications.

For long-lasting, cost-effective electrostatic precipitator insulator performance, specify CoorsTek DuraPure high-purity alumina insulator products.

### Product Applications

Engineered to perform in extreme, hostile electrostatic precipitator environments, CoorsTek DuraPure™ 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, DuraPure high-purity alumina ceramic is the insulator material of choice a wide range of environmentally regulated industries:

- **Power Generation**  
Coal-fired and 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, and basic oxygen furnaces
- **Nonferrous Metals Processing Plants**  
Copper smelting
- **Oil Refineries**  
Catalytic cracker units
- **Municipal and industrial Waste**
- **Incineration Plants**

### Specifications

Backed by our commitment to engineering excellence and responsive customer service, we offer DuraPure high-purity alumina to meet your exact specifications:

- **Superior Mechanical Strength**  
DuraPure high-purity alumina provides enhanced mechanical strength at all precipitator operating temperatures versus weaker electrical porcelain alternatives.
- **Excellent Electrical Resistance Properties**  
DuraPure 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, DuraPure high-purity alumina offers outstanding resistance to abrasion and to corrosion from acids and chemically reactive particulates.

For optimal reliability and durability, specify CoorsTek DuraPure high-purity alumina.

To obtain CoorsTek design and engineering assistance, pricing and delivery information, contact your CoorsTek technical sales representative at +1.303.277.4365.

