

# DURAZON CSG

## CALCIA-STABILIZED ZIRCONIA GRAIN

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## DESCRIPTION

DURAZON CSG is a dense, granular, electric arc fused stabilized zirconia. Durazon CSG stabilized zirconia is a blend of zirconium oxide and approximately 4% calcium oxide. This produces a product with about 75% cubic zirconia plus 25% monoclinic zirconia. The electric arc fused zirconia is poured from a state-of-the-art tilt furnace that insures a high degree of product uniformity. This highly stabilized calcia-stabilized zirconia is thermally stable to very high temperatures (2500°C) and is chemically inert in both oxidizing and reducing atmospheres.

## APPLICATIONS

The physical and chemical characteristics of DURAZON CSG make it specially suited for steel refractory applications such as nozzles, slide gates, and bulk insulations in furnaces and heaters. Kiln furniture setters for firing electro-ceramics is another typical application for these refractory materials. Stabilized zirconia is also used as a grinding material and as an engineering ceramic due to its increased hardness and high thermal shock resistance.

## TYPICAL CHEMICAL ANALYSIS

SiO <sub>2</sub>	0.2%
Al <sub>2</sub> O <sub>3</sub>	0.3%
TiO <sub>2</sub>	0.2%
Fe <sub>2</sub> O <sub>3</sub>	0.06%

## SIZES AVAILABLE

-8+20

-30+50

-50+100

-30+Fines

-100+Fines

-325 mesh

This product information is NOT a specification. It is offered in good faith only as a general description of the product. **Washington Mills makes no warranty of merchantability or of fitness for any particular purpose.** The product chemistry and other characteristics may vary or contain trace elements not specifically listed. If your intended application for this product is so critical that relatively minor variations in chemistry or physical properties could cause problems or damage to your process or product, please contact our office for further assistance.

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