



Zircar Zirconia, Inc.  
"Manufacturer of the original ZIRCAR products" ©

## RARE EARTH FIBERS and TEXTILES TYPE RE



Custom mixed rare earth oxide compositions  
can be made in fibrous forms.

### FEATURES

- Custom Blended Chemistries Offered
- High Temperature Stability
- Low Thermal Conductivity
- Excellent Resistance to Acids
- No Outgassing
- Ten Different Product Formats Offered
- Produced to Custom Specifications

The unique process employed by Zircar Zirconia, Inc. to manufacture yttria-stabilized zirconia cloths and felts can also be used to produce rare earth oxide compositions in the same type of textile forms. Oxides of the elements from the Lanthanide series ( atomic# 57, Lanthanum through atomic# 71, Lutetium) can all be made with this process. Mixed rare earth compositions, such as hafnia-ceria, samaria-ceria and ytterbia-ceria have been made for special applications. The properties and characteristics of the rare earth textiles are similar to the those of the yttria-stabilized zirconia textiles described in product bulletins C-AB, C-C, and C-DE. All of these compositions can be produced as bulk fibers in five different ways, as described in Bulletin #C-F. In addition to the five bulk fibers, two thicknesses of felts and three types of cloth, square woven, satin woven, or tricot knit ,can be made.

### APPLICATION INFORMATION

Rare earth oxide cloths and felts are being investigated for use as emitters in thermo-photo-voltaic (TPV) applications.

### ORDERING INFORMATION

Please contact us with your specific requirements.

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