

Zircar Zirconia RE Rare Earth Fibers and Textiles Insulation

Category : Ceramic , Machinable Ceramic , Oxide

Material Notes:

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, CC, 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. 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 Application Information: Rare earth oxide cloths and felts are being investigated for use as emitters in thermophoto-voltaic (TPV) applications. Information provided by Zircar Zirconia.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Zirconia-RE-Rare-Earth-Fibers-and-Textiles-Insulation.php

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