

Department of Materials Science & Engineering

Indian Institute of Technology, Kanpur

Call for Quotation: Yttria Stabilized Zirconia Grinding Media

Enquiry No. MSE/SO/03

Enquiry Date: 1/12/2011

Closing date: 31/12/2011

We are interested in the purchase of 'Yttria stabilized zirconia grinding media' for the ball milling of ceramic powder. We are hereby calling for quotations from the prospective suppliers for the "YSZ grinding media" with the following minimum specifications/requirements:

1. Chemical Composition: 5 mol.% Y₂O₃ and 95 mol.% ZrO₂
2. Specific Density = 6 gm/cm³
3. Bending Strength = 1200 MPa
4. Hardness (Vickers) > 10 GPa
5. Modulus of Elasticity = 210 GPa
6. Crushing load > 15 kN
7. Fracture Toughness = 6 MPam^{0.5}

YSZ grinding media should be made of highly pure material with smooth spherical surface. We require 2 Kg of spherical grinding media with diameter of 3 mm and 10 mm.

Please send all technical specifications of the product being quoted and applications details about the system along with the quotation. You may highlight any special features of your product along with support evidence/data sheets.

Prospective suppliers may submit **Competitive quotation** for the 'YSZ grinding media' in sealed envelope latest by **31st December, 2011** to the following address:

Dr. Shobit Omar
Materials Science & Engineering,
Indian Institute of Technology, Kanpur