

|                           |                        |                       |                           |                                |                                  |                                 |                                 |                         |
|---------------------------|------------------------|-----------------------|---------------------------|--------------------------------|----------------------------------|---------------------------------|---------------------------------|-------------------------|
| <b>A997/LF</b><br>Alumina | <b>A999</b><br>Alumina | <b>A95</b><br>Alumina | <b>ZTA</b><br>Mixed oxide | <b>ZR02</b><br>Zirconium oxide | <b>MG-PSZ</b><br>Zirconium oxide | <b>ZR02J</b><br>Zirconium oxide | <b>SI3N4</b><br>Silicon nitride | <b>C221</b><br>Steatite |
|---------------------------|------------------------|-----------------------|---------------------------|--------------------------------|----------------------------------|---------------------------------|---------------------------------|-------------------------|

## PRODUCT DESCRIPTION

# ZTA Mixed oxide

|                               |  |
|-------------------------------|--|
| Material                      | $Al_2O_3 + ZrO_2$                          |
| Colour                        | white                                      |
| Density                       | 4,1 g/cm <sup>3</sup>                      |
| Flexural Strength             | 450 MPa                                    |
| Compressive Strength          | 3.600 MPa                                  |
| Modulus of Elasticity (young) | 350 GPa                                    |
| Impact Resistance             | 7,5 MPa m <sup>1/2</sup>                   |
| Weibull Modulus               | 15 m                                       |
| Vickers Hardness              | 1.600 HV 0.5                               |
| Thermal Exoansion Coefficient | 6,0 - 8,6 10 <sup>-6</sup> K <sup>-1</sup> |
| Thermal Conductivity          | 18 W/mK                                    |
| Thermal Shock Resistance      | 320 ΔT °C                                  |
| Maximum Use Temperature       | 1.000 °C                                   |



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