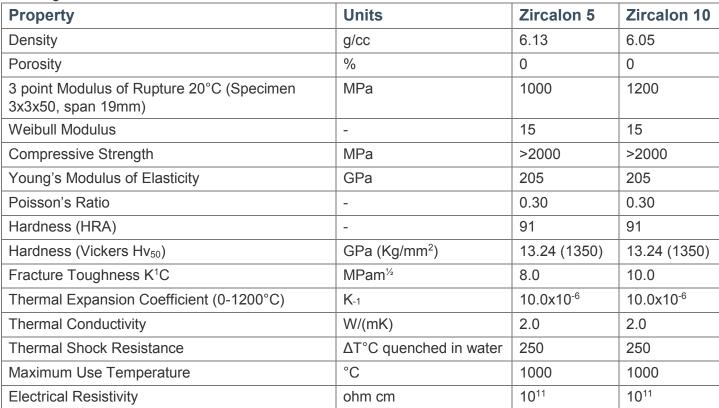


ADVANCED ZIRCONIA CERAMICS

Zircalon 5 & Zircalon 10

Zircalon 5 and **Zircalon 10** are yttria stabilized zirconia ceramics and are amongst the toughest of all monolithic ceramics. They are characterized by high impact resistance and very high strength and toughness resulting in excellent wear resistance.

Zirconia is typically used in applications in the metal forming industry as weld location pins for resistance welding of captive nuts on sheet metal. The table below compares their typical mechanical, thermal and electrical property data of the two grades.



Typical physical property data obtained under test conditions. All properties have been measured by independent testing authorities. The values given only apply to the test bodies on which they were determined, and therefore can only be recommended values.

Applications

Zircalon is used predominately in applications requiring excellent impact and wear resistance, in industries such as metal forming and oil and gas. Components such as weld location pins, as used in resistance welding, benefit from the outstanding toughness and strength of **Zircalon**. Its excellent chemical corrosion resistance also make it a candidate material in chemical and process industry applications.

Technical Support

The successful integration of ceramics into industrial and engineering systems requires close collaboration between you, the end-user, and us, the material suppliers. Our Technical Specialists are available to discuss your requirements in detail and assist in exploiting the significant advantages which **Zircalon** has to offer.

