



## 4AC.031 Loose fibre – Zirconia

### Overview

Loose zirconia fibre ZYBF exists in three different types that can withstand up to 2,200 °C. This polycrystalline material is stabilised by yttrium oxide. It can be moulded under vacuum into rigid elements, used in cavities as loose insulators or added as a reinforcement to ceramic parts and coatings.

### Technical Data

Properties		Unit	ZYBF-1	ZYBF-2	ZYBF-5
Material			Zirconia		
Composition		%	ZrO <sub>2</sub> : 90 Y <sub>2</sub> O <sub>3</sub> : 10 Impurities: < 2.5		
Temperature	Operating	°C	2,200	2,200	2,200
	Peak		2,300	2,300	2,300
Moisture content		%	< 3	< 0.2	< 0.2
Density		g/cm <sup>3</sup>	0.12	0.34	0.25

### General Data

Material	Thermal resistivity	Mechanical strength	Chemical resistance
Zirconia	★★★★★	★☆☆☆☆	★☆☆☆☆ Only mineral acids boiling over a short period of time

The physical properties in this documentation are provided for informational purposes only and do not constitute a contractual commitment. Please contact our technical service if you require any additional information.