

ZIRCONIUM OXIDE PRODUCT LIST



Pangea International, a professional Chinese raw materials supplier for global ceramic industry, has established long term strategic partnership with Zhengzhou Zhenzhong Fused Zirconia Co.,Ltd.(briefly as ZZ Zirconia). ZZ Zirconia is one of the largest zirconia producers in the world and is the current Chinese leader in stabilized zirconia production. The cooperation enables us to listen more closely to the needs of each customer in order to implement tailor-made solutions by way of optimized logistics, storage and technical consultation as well as financing.

The following list summarises the products that are currently available.

Zirconium Oxide, fused

Grade	Chemistry	Product Description & Typical Applications
Z-99	99.3% min ZrO ₂	100% Monoclinic, high purity
PCK	93% min ZrO ₂ 2.7-4.5% CaO	Calcia stabilized, containing 70 ~ 95% cubic phase 0.2 ~ 3.0 mm hollow bubbles, melting point > 2200°C Useful as heat exchange media in fluidized bed reactors and as insulation in constrained spaces in very high temperature.
PCD	94% min ZrO ₂ 2.7-4.5% CaO	Calcia stabilized, high purity For manufacturing zirconia based refractories and ceramics
PMD	94-96% ZrO ₂ 2.8-4% MgO	Magnesia stabilized, containing approx 65% cubic phase For manufacturing zirconia based refractories and ceramics
ZZ-MZ03	96% min ZrO ₂ 3% MgO	Magnesia Zirconia Powder For manufacturing ceramic foam filters
PYD	90-92% ZrO ₂ 7-9% Y ₂ O ₃	Yttria stabilized, containing 70 ~ 95% cubic phase Used for manufacturing thermal spray powders and high class refractories

Zirconium Oxide, thermal processed

Grade	Chemistry	Product Description & Typical Applications
Z-10	99% min ZrO ₂	100% Monoclinic, Used for production of intense ceramic stains
Z-12	99.5% min ZrO ₂	100% Monoclinic, Used for production of ceramic stains, technical ceramics, thermal spray powders as well as high class refractories
ZZ-MZ04	75% ZrO ₂ 24% MgO	Granule, ready to spraying, binder removed Zirconia stabilization occurs during spraying Applicable to Thermal Barrier Coatings (HVOF etc...)
ZZ-MZ05	97% ZrO ₂ 2.5% MgO	Sub-micron fine powder Zirconia stabilization occurs during sintering Used for production of high class zirconia based refractories
ZZ-YZ03	91% ZrO ₂ 8% Y ₂ O ₃	Granule, ready to spraying, binder removed Zirconia stabilization occurs during spraying Applicable to Thermal Barrier Coatings (HVOF etc...)
ZZ-YZ04	90% ZrO ₂ 9% Y ₂ O ₃	Sub-micron fine powder Zirconia stabilization occurs during sintering Used in layer coatings of Alumina composite setter plates

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