



2MS.006

Zirconium Oxide Powder ZYP

Application

- Filtration
- Manufacture of oxygen sensors
- Thermal barrier coatings for gas turbines and diesel engines
- Grain growth inhibitor for non-oxide ceramics
- Polishing

Physical variables included in this documentation are provided by way of indication only and do not, under any circumstances, constitute a contractual undertaking. Please contact our technical service if you require any additional information.

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Overview

ZYP powder is an ultra-fine, highly reactive powder composed of zirconia stabilised with yttrium oxide. It is made using the original Zircar Process by Zircar Zirconia

Sintering of ZYP powder particles starts around 900°C and it is possible to create zirconia ceramic parts approaching theoretical density using ZYP at only 1,450 °C.

Property

- Extremely high environmental stability
- Stabilized with 10 % yttrium oxide
- Low sintering temperature
- Pre-sintered and binder-free

Technical Data

Property	Unit	ZYP-30	ZYP-40	ZYP-55
Item N°		225-0300	225-0310	225-0320
Nominal Composition	ZrO ₂ *	90	90	90
	Y ₂ O ₃	10	10	10
Trace Impurities	Wt %	< 1	< 1	< 1
Ignition Loss	Wt %	1.8	2.2	3.1
Specific Surface Area	m ² /g	25 - 35	35 - 45	50 - 60

*1-2 % weight hafnia (HfO₂) occurs naturally with zirconia (ZrO₂) and does not affect performance.

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