

Spray Dried Powder P172SDP

PRODUCT INFORMATION

This ready to press powder has been spray dried in order to be suitable for Uniaxial as well as Isostatic dry pressing. A high fired density can be achieved after firing green parts at a sintering temperature of below 1600°C.

This product is a 99.8% Al₂O₃ granulate based on a sub-micronic alumina from our low soda range. MgO is added to achieve excellent ceramic properties as well as a homogeneous microstructure.

This ready to press product is recommended for the production of advanced ceramics with high alumina content.

CHARACTERISTICS

Physical Characteristics	Unit	Typical Value
Median granulate size D50	µm	125
Loss on Ignition	%	2.2
Moisture	%	0.3
Chemical Characteristics	Unit	Typical Value
Al ₂ O ₃ (by difference)	%	99.8
Na ₂ O total	ppm	500
CaO	ppm	200
MgO	ppm	500
SiO ₂	ppm	350
Fe ₂ O ₃	ppm	180
Ceramic Properties	Unit	Typical Value
Green Density (100 MPa)	g/cm ³	2.30
Fired Density (1540 °C, 2h.)	g/cm ³	3.91

Valid after :

01/01/2013