

<b>Data Sheet</b>	
<b>Product</b>	Aluminium Oxide Al <sub>2</sub> O <sub>3</sub> plus processing additives
<b>Ceramic powder</b>	Al <sub>2</sub> O <sub>3</sub> , 99.8 %
<b>Appearance</b>	White to greyish granulate material
<b>Product description</b>	Injection moulding feedstock for production of sintered ceramic components
<b>Theoretical density</b>	3.94 g/cm <sup>3</sup>
<b>Shrinkage approx.</b>	16.5 % corresponding
<b>Mold factor approx.</b>	1.19
<b>Processing temperature</b>	From feeding zone 150 °C to nozzle tip 160 °C
<b>Mold temperature</b>	56 °C – 62 °C
<b>Debinding</b>	2 step water & thermal Particular conditions are depending on part dimension and design.
<b>Sintering temperature</b>	1,600-1620 °C in air
<b>Storage and Lifetime</b>	Product can be used for approx. 6 months after opening if stored dry at room temperature. Vessel has to be closed airtight <u>thoroughly</u> after feedstock withdrawal.
<b>Manufacturer</b>	<b>INMATEC Technologies GmbH</b> Heerstrassenbenden 10 D- 53359 Rheinbach

**Advice:** Due to the abrasive behaviour of ceramic powder we strongly recommend production with cylinder, screw and mold made from hard metal only.