INMAFEED K1009

INMATEC Technologies GmbH

Data Sheet	
Product	Zirconium Oxide ZrO_2 plus processing additives
Ceramic powder	ZrO_2, 94.5 %, partly Y_2O_3 - stabilized TZ-3YE (Tosoh Corp.)
Appearance	White to greyish granulate material
Product description	Injection moulding feedstock for production of sintered ceramic components
Theoretical density	6.05 g/cm^3
Shrinkage approx.	25 % corresponding
Mold factor approx.	1.33
Processing temperature	From feeding zone 150 °C to nozzle tip 158 °C
Mold temperature	52 °C to max. 58 °C
Debinding	2 step water & thermal Particular conditions are depending on part dimension and design.
Sintering temperature	1,400 °C – 1,450 °C in air
Storage and Lifetime	Product can be used for approx. 6 months after opening if stored dry at room temperature. Vessel has to be closed airtight thoroughly after feedstock withdrawal.
Manufacturer	**INMATEC Technologies GmbH** 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.