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Sintering beads



Description:

Sintering beads made of partially stabilized zirconium oxide (3Y-TZP Tetragonal Zirconia Polycrystals) have a high level of purity and durability and were designed for the sintering of zirconium oxide ceramics and cobalt-chromium sintered metal. The sintering beads are used as a base in the firing process and thus reduce the friction between the material to be fired and the base or the bottom of the crucible. When sintering cobalt-chromium sintered metal alloys, a contact reaction between the crucible material (silicon carbide, SiC) and the cobalt-chromium alloys to be burned is prevented. Even at high firing temperatures, the chemical composition of the sinter beads ensures that they do not stick to the material to be fired, cause imprints or unwanted discolorations.

Specification:

Chemical composition	
ZrO ₂ (HfO ₂)	94,8 %
Y ₂ O ₃	5,1 %
Fe ₂ O ₃	70 ppm
Na ₂ O	50 ppm

Physical characteristics	
Sinter density:	> 6,03 g/cm ³
Bulk density:	3,7 g/cm ³
Size:	Ø 2,0 ± 0,15 mm
Colour:	shining white

Pack sizes:

The sintered beads can be obtained in plastic screw-cap jars of 100 g, 200 g, 500 g and 1,000 g. The sintered beads can also be packed individually according to specifications.

The above values are only indicative and not guaranteed properties.