

# Zirconia Toughened Aluminum Powder

ジルコニア強化アルミニウム粉末

ZTA ceramic powder is based on ultra-fine alumina grains as matrix, and YSZ zirconia tetragonal phase as the toughening medium. It has the features such as the uniform particle distribution, controllable sintering range, sintered body strength and toughness, microstructure uniform grain size, dense and so on. It can be widely used in various types of structural ceramics, electronic ceramics, biological ceramics, advanced refractory materials, optical communication devices, artificial gems, oxygen sensors, solid oxygen fuel cells, grinding and polishing industries.

Product Code	Chemical composition%					Sintered Density (g/cm <sup>3</sup> )	Appearance	Other
	Y-ZrO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>			
SY-ZTA10	10	89.9	0.01	0.02	0.02	4.08	Powder/Granule	Can be adjusted according to customers' requirements
SY-ZTA15	15	84.9	0.01	0.02	0.02	4.1	Powder/Granule	
SY-ZTA16	16	83.9	0.01	0.02	0.02	4.12	Powder/Granule	
SY-ZTA20	20	79.9	0.01	0.02	0.02	4.2	Powder/Granule	
SY-ZTA20BL	19	76	黒色素Melanin<5			4.05	Powder/Granule	For Black ZTA ceramics