

Magnesium stabilized zirconia Powder

マグネシウム安定化ジルコニア粉末

With special production process, we can produce different Mg-YSZ powder by adjusting the content of MgO. Our Mg-YSZ powder can be divided into two types. One is white and the other is yellow and earth yellow, which are applied for different structural ceramics, anti-corrosion ceramics and Refractory ceramics.

		Y2W01E		5Y2W0E	5Y0
Z102%(+HI02)	95.65	96.65	95.65	96.65	96.65
MgO(wt%)	32±0.2	3.2±0.2	32±0.2	3.2±0.2	3.2±0.2
Al2O3XS	001	001	001	0.01	001
SiO2% _s	0.01	0.01	0.01	0.01	0.01
Fe2O3% _≤	0.01	0.01	0.01	0.01	0.01
CaO% _s	0.02	0.02	0.02	0.02	0.02
others _s	1	0	1	0	0
IL(%) _≤	3		3	3	3
Density(g/cm ³) _{>}	5.7	5.6	5.75	5.65	5.5
compressive strength (Mpa)	550	500	650	600	450
Corrosion resistance	good	Excellent	good	Excellent	good
Color after sintering	white	grey white	yellow	yellow	earth yellow
HV (Mpa) _{>}	1000		1200		
Application	Structural ceramics, mechanical parts, anti-corrosion chemical ceramics, refractory ceramic				