

Alumina Ceramic



SP5000 Alumina ceramic

Alumina ceramic friction material is sintered from high temperature. It includes Al_2O_3 (95%), high purity Al_2O_3 (99%), and metal Al_2O_3 (metal ceramic) (mainly contains Fe).

Alumina has the property of wear resistant, high temperature resistant, and good sealing property. It resists general corrosive mediums except hydrofluoric acid and strong alkali. Alumina is brittle and can crack under severe temperature changing.

Specifications:

Material	95% Al_2O_3	99% Al_2O_3	Metal Al_2O_3
Density	3.6g/cm ³	3.8g/cm ³	4g/cm ³
Hardness	82 (HRA)	87 (HRA)	84 (HRA)
Bend strength	2400Mpa	2600Mpa	3000Mpa
Thermal conductivity	8~20wm/k	0.5~0.7wm/k	20~40wm/k
Coefficient of thermal expansion	16~18 x 10 ⁻⁶ /°C	16~18 x 10 ⁻⁶ /°C	25~30 x 10 ⁻⁶ /°C