

ESD Ceramic type (ZJ)

General notes:

- » Zirconia Toughened Alumina (ZTA)
- » a superior combination of high strength (from zirconia) and high hardness (from alumina)
- » relatively low density
- » no open porosity
- » very hard surface, good abrasion and wear resistance
- » good flexural strength and fracture toughness
- » excellent thermal properties and high temperature stability
- » extreme corrosion resistance, nearly chemically inert
- » **ESD Safe static dissipative material**
- » typically applications includes **handling of EOS/ESD** sensitive components, handling of components during thermal, chemical and soldering processes. Generally used when very rigid tips are required.

Thermal properties

Thermal conductivity	5 W/m K	
Coef. of lin. therm expansion	9.5 E-6/°C	25°C-1.000°C
Continuous Use Temperature	1400°C	20.000 h
Shock resistance, ΔT	325°C	

Electrical properties

Surface resistivity	10⁷-10⁹ Ohm/sq.	100 V
Decay time	<0.5 sec	1.000-10V