

# ESD Ceramic Replaceable Tip Tweezers (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	<b>5 W/m K</b>	25°C-1.000°C 20.000 h
Coef. of lin. therm expansion	<b>9.5 E-6/°C</b>	
Continuous Use Temperature	<b>1400°C</b>	
Shock resistance, ΔT	<b>325°C</b>	

## Electrical properties

Surface resistivity	<b>10<sup>7</sup>-10<sup>9</sup> Ohm/sq.</b>	100 V
Decay time	<b>&lt;0.5 sec</b>	1.000-10V



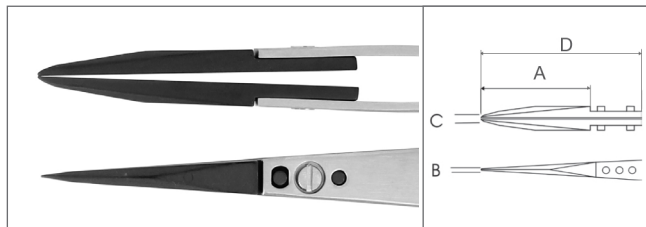
### 2AZJK.SA

A 0.98" 25 mm - B 0.075" 1.9 mm - C 0.028" 0.7 mm - D 1.57" 40 mm \_ Replaceable tips set code: **A2AZJK**



### 71ZJ.SA

A 1.18" 30 mm - B 0.028" 0.7 mm - C 0.05" 1.2 mm - D 1.77" 45 mm \_ Replaceable tips set code: **A71ZJ**



### 72ZJ.SA

A 1.18" 30 mm - B 0.010" 0.25 mm - C 0.028" 0.7 mm - D 1.77" 45 mm \_ Replaceable tips set code: **A72ZJ**



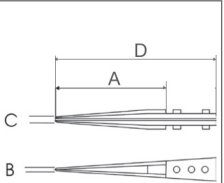
### 73ZJ.SA

A 1.40" 35 mm - B 0.024" 0.6 mm - C 0.04" 1.00 mm - D 1.90" 50 mm \_ Replaceable tips set code: **A73ZJ**



**7ZJ.SA**

A 1.2" 30 mm - B 0.028" 0.7 mm - C 0.036" 0.9 mm -  
 D 1.57" 40 mm \_ Replaceable tips set code: **A7ZJ**

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	
<b>2AZJK.SA</b>	25 mm	1.9 mm	0.7 mm	40 mm	
<b>71ZJ.SA</b>	30 mm	0.7 mm	1.2 mm	45 mm	
<b>72ZJ.SA</b>	30 mm	0.25 mm	0.7 mm	45 mm	
<b>73ZJ.SA</b>	35 mm	0.6 mm	1.0 mm	50 mm	
<b>7ZJ.SA</b>	30 mm	0.7 mm	0.9 mm	40 mm	
<b>PART #</b>	<b>DIMENSIONS</b>				