

### OVERVIEW

CT1100-1 is an Alumina Zirconia coating applied using the plasma spray process. The coating is chemically inert, stable at elevated temperatures, and resistant to stresses induced by thermal cycling. CT1100-1 is especially effective in applications where the component is exposed to certain molten metals. Use up to 1600° F.

### TYPICAL PROPERTIES

<b>Nominal Composition:</b>	75% Al <sub>2</sub> O <sub>3</sub> – 25% ZrO
<b>Bond Strength:</b>	> 5,000 psi
<b>Coating Porosity:</b>	10-20%
<b>As-sprayed Surface Roughness:</b>	300-500 Ra



### FOR THE FOLLOWING APPLICATIONS

CT1100-1 is used for severe service conditions of molten metal erosion. Typical components coated with this coating are steel mill galvanizing and aluminizing rolls.

### FINISHING

Coatings of CT1100-1 are typically used as sprayed with no further finishing.

### SPECIFICATIONS

CT1100-1 meets the following specifications:

Internal CTS specifications only