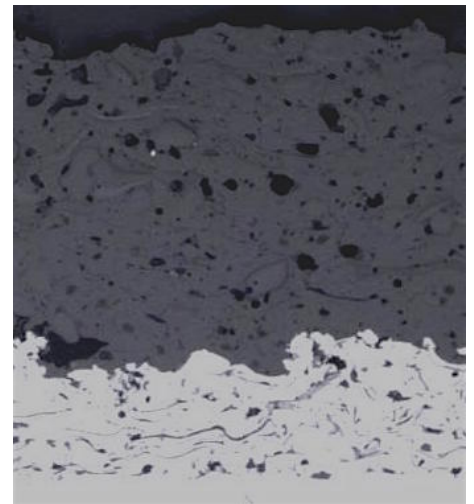


## OVERVIEW

CT1104-1 an Aluminum Oxide ceramic coating designed to produce relatively thick coatings. It is often used as the abrasive coating in jet engine clearance control coating systems. It resists heat up to 2000° F. CT1104-1 is normally applied over a metallic bond coat. It is gray in color due to the Titanium Oxide that is included in the chemistry.

## TYPICAL PROPERTIES

<b>Nominal Composition:</b>	94% Al <sub>2</sub> O <sub>3</sub> , 2.5% TiO <sub>2</sub> , 2% SiO <sub>2</sub> , other oxides (Bal.)
<b>Bond Strength:</b>	1,000 psi over bond coat
<b>Coating Porosity:</b>	15%
<b>Coating Hardness:</b>	DPH300760
<b>As-sprayed Surface Roughness:</b>	700 Ra



## FOR THE FOLLOWING APPLICATIONS

CT1104-1 is used as an abrasive coating in jet engine compressors, paired with an abradable coating in order to improve the air seal between two components. It may also have some use in foundry applications for resistance to molten zinc, aluminum and copper.

## FINISHING

Finish CT1104-1 by grinding with green silicon carbide or diamond wheels. CT1104-1 may be wet or dry ground. CTS can recommend grinding parameters if needed.

## SPECIFICATIONS

CT-1104-1 meets the following specifications:

<b>GEPS:</b>	A50A565
<b>GEAE:</b>	A50TF87B
<b>PWA:</b>	1311-1R