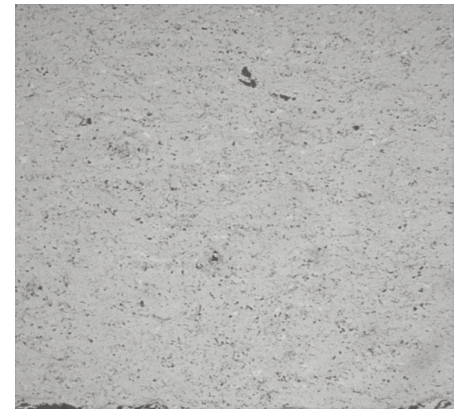


## OVERVIEW

CT2302-2 a Prealloyed Chrome Carbide Nickel Chromium applied using the HVOF process. It is a tough, dense coating well suited to applications where both heat resistance and wear resistance are combined. It is often preferred for hot erosion applications such as those found in industrial gas turbines and in other industrial applications where hot hardness, resistance to abrasion, resistance to erosion and resistance to fretting is required. Since chrome carbide coatings are generally lubricious, CT2302-2 may be used as the hard component of a bearing match where galling has been a problem. CT2302-2 may be used up in applications where it will be exposed to temperatures of up to 1500° F.

## TYPICAL PROPERTIES

<b>Nominal Composition Cobalt:</b>	75% Chromium Carbide, 25% Nickel Chromium
<b>Bond Strength:</b>	10,000 psi
<b>Coating Porosity:</b>	Less than 2%
<b>Coating Hardness:</b>	DPH <sub>300</sub> 800-950
<b>As-sprayed Surface Roughness:</b>	200 Ra



## FOR THE FOLLOWING APPLICATIONS

CT2302-2 is used as a heat resistant, erosion resistant coating in gas turbine engines and in furnace roll applications in the steel industry. CT2302-2 is ideal for applications up to 1500° F.

## FINISHING

Finish CT2302-2 by grinding with green silicon carbide or diamond wheels. CT2302-2 should be wet ground. CTS can recommend grinding parameters if needed.

## SPECIFICATIONS

CT-2302-2 meets the following material specifications:

Meets internal CTS specifications, and various customer specifications.