

OVERVIEW

CT5125-1 is a nickel-chromium based superalloy coating applied using the plasma process. The coating is very dense, very well bonded and suitable for use as a build up coating in areas where high temperature resistance and corrosion resistance are desirable. CT5125-1 works well in aerospace and land based turbine applications up to 1300° F.

TYPICAL PROPERTIES

Nominal Composition Cobalt:	52Ni, 19Cr, 18 Fe, 5 (Nb+Ta), 3 Mo, 1 Ti, .5Al, .05C
Bond Strength:	In excess of 10,000 psi
Coating Porosity:	Less than 1%
Coating Hardness:	Vickers 400-500
As-sprayed Surface Roughness:	100-150 Ra



FOR THE FOLLOWING APPLICATIONS

CT5125-1 is used for severe service conditions of high temperature and corrosion. It is used frequently to repair hot section parts of gas turbines.

FINISHING

Finish CT5125-1 by grinding or machining. If machining use C2 or C7 carbide tools, minimum 200 SFPM, light cuts up to .005" per pass and .0015/rev. traverse speeds. CT5125-1 may be ground with green silicon carbide wheels.

Finishes of 4-6 Ra are possible by grinding. This coating may also be superfinished to a 2 Ra finish.

SPECIFICATIONS

CT-5125-1 meets the following specifications:

GEAE:

B50TF202 Cl. D to F50TF18C