

OVERVIEW

CT5146-2 is a nickel-chromium aluminum alloy coating applied using the HVOF process. The coating is very dense, very well bonded and suitable for use as a very machineable build up coating in areas where high temperature oxidation resistance is desirable. CT5146-1 works well in aerospace and land based turbine applications up to 1800° F.

TYPICAL PROPERTIES

Nominal Composition:	NiCrAl
Bond Strength:	In excess of 10,000 psi
Coating Porosity:	Less than 1%
Coating Hardness:	Rb 90-95
As-sprayed Surface Roughness:	200-250 Ra

FOR THE FOLLOWING APPLICATIONS

CT5146-2 is used for severe service conditions of high temperature oxidation. It is used frequently to repair hot section parts of gas turbines where machineability is a highly desirable characteristic.

SPECIFICATIONS

CT-5125-2 meets the following specifications:

GEAE:

B50TF119 Cl. C to F50TF18C

FINISHING

Finish CT5146-2 by machining. If machining use C2 carbide tools, minimum 200 SFPM, light cuts up to .005” per pass and .0015/rev. traverse speeds. CT5146-2, if ground, tends to load the grinding wheel, so frequent dressing is required.