

ABRADABLE COMPOSITION AND METHOD OF MANUFACTURE

Abstract

A thermal spray powder having a first component A mechanically blended with a second component B, wherein the first component A is a metal or metal composite, preferably at least one of Ni -Cr- Al clad ABN, Ni-Cr-Al clad HBN, Ni-Cr-Al clad agglomerated hexagonal boron nitride powder with organic binder, Ni-Cr-Al agglomerated hexagonal boron nitride powder with inorganic binder, an MCrAlY type powder where M is at least one of Ni, Co, Fe, and wherein component B is a polymer clad with at least one of nickel, nickel alloys, nickel chrome alloys, nickel chrome aluminum alloys, nickel aluminum alloys, cobalt and cobalt alloys. The result is a thermal spray powder of four distinctly different phases making the powder a four-phase blend.

Fig. 5