

ABRADABLE QUASICRYSTALLINE COATING

ABSTRACT

A thermally sprayed coating formed with a quasicrystal-containing alloy, the alloy consisting essentially of, by weight percent, 10 to 45 Cu, about 7 to 22 Fe, 0 to 30 Cr, 0 to 30 Co, 0 to 20 Ni, 0 to 10 Mo, 0 to 7.5 W and balance aluminum with incidental impurities. The alloy contains less than 30 weight percent ψ phase and at least 65 weight percent δ phase. The coating has a macrohardness of less than HR15Y 90.

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