

ABSTRACT OF THE DISCLOSURE

The invention includes a low activity localized aluminide coating for a metallic article made by positioning a coating material, preferably in the form of a tape, on a portion of the article. The coating material comprises a binder, a halide
5 activator, an aluminum source, and an inert ceramic material. The coating material and the article are heated in an inert atmosphere between about 1800°F (982°C) and about 2050°F (1121°C) for between about four and about seven hours thereby producing a low activity localized aluminide coating having an outward diffusion
10 aluminide coating microstructure characterized by two distinct zones, an inner diffusion zone and an outer zone including between about 20-28 percent, by weight, aluminum.

