



FACTS

Alcoa Howmet's Thermatech operations, located in Whitehall, Michigan, provides sophisticated coating services to the aerospace and power generation industries. The advanced coatings supplied by Thermatech extend the operating life of the most complex components by providing them with the highest degree of protection against the damaging effects of oxidation and corrosion. Thermatech specializes in the coating of hot-section components cast in nickel-based alloys with equiax, directional solidification and single-crystal orientation.

Alcoa Power and Propulsion, a major business unit of Alcoa Inc. (NYSE: AA), is a global leader in airfoil and structural investment castings, forged structural parts, and forged aircraft wheels. Serving the aerospace, defense, energy and industrial markets, its products are primarily used in jet engines and industrial gas turbines. Additional value-added products and services include hot isostatic pressing, specialty coatings, research and development, supply chain management, specialty tools, molds, and machinery. With 29 production facilities, Alcoa Power and Propulsion employs more than 11,000 people worldwide.

PRODUCTS

Aerospace

- High-pressure blades, vanes, vane rings and shrouds

Power Generation

- Blades, buckets, vane segments and shrouds

Specialty Markets

Thermatech is a world leader in two areas:

- The coating of product with noble metal (platinum aluminide) by pack cementation or chemical vapor deposition (CVD)
- The coating of hot-section components by CVD

Quality Accreditations

- Coatings Lab: CCL Level II
- FAA approved repair station
- ISO9002 Certified
- Nadcap approval
Coatings
Heat treatments
Material test lab (MTL)

Growth Areas

- High-pressure blades
- Hot-section, industrial gas-turbine blades and buckets

CAPABILITIES

- Chemical vapor deposition
- CVD-aluminide, noble-metal aluminide and silicon aluminide
- Various units with a working zone of up to 40 in (101.6 cm) in diameter x 50 in (127 cm) in length
- Pack cementation: noble-metal aluminide, aluminide, chromium
- Plasma spray: low-pressure, high-velocity oxy-fuel and air
- Electron Beam Physical Vapor Deposition
- Vacuum brazing
- Vacuum heat treat
- Part stripping

CONTACT INFORMATION:

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