



FACTS

Alcoa Howmet, located in Exeter, England, is one of the world's leading suppliers of vacuum alloys used in the manufacture of high-technology investment castings and forging stock.

Built in 1975, the facility has enjoyed steady growth, increasing capacity with the installation of a new furnace in 1986 and expanding laboratory and support facilities many times over the years.

The facility has been awarded ISO 9001, AS 9100 and ISO 14001.

Alcoa Power and Propulsion, a major business unit of Alcoa Inc. (NYSE: AA), is a global leader in airfoil and structural investment castings. 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 26 production facilities, Alcoa Power and Propulsion employs more than 10,500 people worldwide.

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PRODUCTS

Heat Sizes

- Vacuum barstock: 75 to 184 mm (3 to 7.25 in), 2,000 - 5,900 kg (4,400 - 13,000 lb)
- Vacuum electrode: 660 mm (26 in) 5,000 kg (11,000 lb)

Alloys Poured

Nickel-based:

- IN100, IN713, IN718, IN738, IN792, IN939
- Mar-M247, René 80, 1st and 2nd generation, single-crystal alloys, Monel

Cobalt-based:

- Mar-M 509, X40, X45, CO-CR

Iron-based:

- Nimaraging, E9310
- Many turbine manufacturers' proprietary alloys

Inspection

The laboratory holds internationally recognized BS EN ISO/IEC 17025 accreditation from UKAS in addition to approvals from such customers as Rolls-Royce, Snecma, GE, GEAE, and PWA. UKAS certification makes the laboratory's advanced equipment available to meet your analytical needs.

Markets and Applications

- Aerospace
- Industrial gas turbines
- Forging stock
- Automotive
- Medical
- General commercial

CAPABILITIES

The manufacture and full certification of vacuum induction superalloys for subsequent:

- Re-melting and casting
- Vacuum arc refining
- Electro-slag refining
- Forging

CUSTOMERS

- Rolls-Royce
- Tata Steel, UK
- Snecma
- Alcoa plants in England, France, Japan, USA, and independent customers worldwide