



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - AS9100 REV B and ISO 9001:2008

This is to certify that:

**Howmet International Inc.
dba Alcoa Power and Propulsion
1500 South Warner Street
Whitehall
Michigan
49461
USA**

Holds Certificate No: **FM 76284**

and operates a Quality Management System which complies with the requirements of AS9100 REV B and ISO 9001:2008. BSI Management Systems America, Inc. is accredited under the Aerospace Registration Management Program and the assessment was performed in accordance with the requirements of AS9104 Rev A for the following scope:

The manufacture of superalloy, titanium and aluminum investment castings for the aerospace, defense and industrial markets. This includes supporting operations for the manufacture of ceramic cores, pattern and gating waxes, ceramic crucibles and related components, superalloy and titanium ingot, thermal protective coatings for castings, Hot Isostatic Pressing, vacuum heat treat, vacuum brazing and welding, metal finishing, machining and laboratory testing services for castings.

For and on behalf of BSI:

President, BSI America, Inc.

Originally Registered: **07/08/2003**

Latest Issue: **11/19/2009**

Expiry Date: **11/18/2012**



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This certificate remains the property of BSI and shall be returned immediately upon request. An electronic certificate can be authenticated [online](http://www.bsigroup.com/ClientDirectory). Printed copies can be validated at www.bsigroup.com/ClientDirectory To be read in conjunction with the scope above or the attached appendix.

Americas Headquarters: 12110 Sunset Hills Road, Suite 200, Reston, VA 20190, USA.



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Location	Registered Activities
Howmet Limited Exeter Alloy (AHEA) Herron Road and Unit 4 Kestral Way Sowton Industrial Estate Exter EX2 7LL United Kingdom	Manufacture of Nickel and Cobalt Based Alloys and Steels. Vacuum Induction Melted Products in Bar Stock, Ingot and Electrode Form. Manufacture of Ceramic Cores.
Howmet Ciral s.n.c. Evron Casting (ACAL) Zone de La Presaie Route de l'Orgerie Evron 53600 France	Manufacture of Aluminum Alloy Investment Castings.
Howmet Castings and Services, Inc. Corporate Machining (AHCM) 145 Price Road Winsted Connecticut 06095 USA	Machining of Industrial Gas Turbine and Aircraft Engine Components.
Howmet Corporation Howmet Specialty Business Thermatech (AHCT) 555 Benston Road Whitehall Michigan 49461 USA	The Application of Diffusion Coatings, Metallic and Ceramic Overlay Coatings, Vacuum Brazing, Welding and Vacuum Heat Treatment of Aerospace and Industrial Turbine Components.
Howmet Castings and Services, Inc. Dover Casting (AHDC) Dover Alloy (AHDA) 9 Roy Street Dover New Jersey 07801 USA	Investment casting of Super Alloys for the Aerospace, Industrial Gas Turbine Industry. Manufacture of Super Alloy.

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Location	Registered Activities
Howmet de Mexico S. de R.L. de C.V. (AHdM) Parque Industrial Amistad KM 7.100 Carretera Presa La Amistad Acuna Coahuila 26220 Mexico	The inspection and finishing of metal castings, preparation of ceramic cores and manufacture of wax shapes used by Howmet/Alcoa facilities to manufacture aluminum and superalloy products for the aerospace, industrial gas turbine and commercial markets.
Howmet Limited Exeter Casting (AHEC) Kestrel Way Sowton Industrial Estate Exeter EX2 7LG United Kingdom	Investment Casting of Nickel and Cobalt Super Alloys.
Howmet SAS Gennevilliers Casting (AHGC) 68-78 rue du Moulin de Cage P.O. Box 147 Gennevilliers 92231 France	Manufacture of Investment Castings of Super Alloys and Stainless Steel by the Lost Wax Process.
Howmet Aluminum Casting Ltd. Georgetown Casting (AHGE) 93 Mountainview Road North Georgetown Ontario L7G 4J6 Canada	The Manufacture of Non-Ferrous Investment Castings.
Howmet Castings and Services, Inc. Howmet Hampton Casting (AHHC) One Howmet Drive Hampton Virginia 23661 USA	The manufacture of precision investment castings in Superalloys primarily for the Industrial and Aerospace Gas Turbine markets.

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Location

Registered Activities

Howmet Castings and Services, Inc.
LaPorte Casting (AHLK)
1110 East Lincolnway
LaPorte
Indiana
46350
USA

The Manufacture of Investment-Cast Super Alloy Components Primarily for Turbine Engines Used on Jet Aircraft and in Utility Power Generation.

Howmet Aluminum Casting Ltd.
Laval Castings (AHLV)
4001 Autoroute Des Laurentides
Laval
Québec
H7L 3H7
Canada

The Manufacture of Non-Ferrous Investment Castings.

Howmet SAS
Normandy Casting (AHNC)
Z.A.C. des Grands Pres
Dives sur Mer
14160
France

Manufacture of Investment Castings of Super Alloys by the Lost Wax Process.

Howmet Corporation
Howmet Research Center (AHRC)
1500 South Warner Street
Whitehall
Michigan
49461-1895
USA

Materials Testing, Analytical Laboratory Services, Specialty Vacuum and Inert Atmosphere Heat Treatment, Instrumentation Calibration, Assembly of Thermocouples to Customer Requirements, and Prototype Pattern Manufacturing, Primarily for the Investment Casting Industry.

Howmet Castings and Services, Inc.
Howmet Structural Casting (AHSC)
One Howmet Drive
Hampton
Virginia
23661
USA

The manufacture of precision investment castings in Titanium and Superalloys primarily for the Aerospace and Defense Markets.

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Howmet Corporation Ti-Cast (AHTC) Hot Isostatic Pressing (AHCH) Specialty Materials (AHSM) 1600 South Warner Street Whitehall Michigan 49461 USA	The Manufacture of Investment-Cast Titanium Components for Turbine Engines and Parts for Jet Airframes. Supplier of Toll Hot Isostatic Pressing Services. Investment Casting Waxes, Zirconia Melting Crucibles, Tundish Nozzles, Media Finish Compounds.
Howmet Turbine Components Corporation Turbine Components Coating (AHTCC) 4 Commercial Street Branford Connecticut 06405 USA	The Application of Diffusion Coatings, Metallic and Ceramic Overlay Coatings, Vacuum Brazing, Welding and Vacuum Heat Treatment of Aerospace and Industrial Turbine Components.
Howmet Corporation Howmet Specialty Business Titanium Ingot (AHTI) 555 Benston Road Whitehall Michigan 49461 USA	Manufacture of Titanium Ingots (Standard Grade, Double and Triple-Melt Rotor Quality) for Applications in Commercial and Military Aerospace, Chemical Processing, Medical Implants and the Recreational Industry.
Howmet Corporation Whitehall Casting (AHWC) One Misco Drive Whitehall Michigan 49461 USA	The Manufacture of Investment-Cast Super Alloy Components Primarily for Turbine Engines Used on Jet Aircraft and in Utility Power Generation. This scope of registration also covers activity at: Plant 3 - One Misco Drive Whitehall, MI 49461 Plant 10 - 3850 White Lake Drive Whitehall, MI 49461
Howmet Castings and Services, Inc. Wichita Falls Casting (AHWF) 6200 Central Freeway North Wichita Falls Texas 76305-6605 USA	The Manufacture of Investment-Cast Super Alloy Components Primarily for Turbine Engines Used on Jet Aircraft and in Utility Power Generation.

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Corporate support activities.



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