


AMG Advanced Metallurgical Group N.V. Titanium Aluminides Lift Off on the Airbus A320neo First Flight

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Amsterdam, 6 October 2014 --- AMG Advanced Metallurgical Group N.V. ("AMG", Euronext Amsterdam: "AMG") announces that the new A320neo powered by Pratt & Whitney's highly advanced PurePower® PW1100G-JM engines with AMG Titanium Alloys and Coatings ("AMG TAC") titanium aluminides, ("TiAl") successfully completed its maiden flight.

The successful flight was made possible in part by the [innovative](#)  TiAl material technology developed by AMG TAC metallurgists and engineers. TiAl combines the heat resistance aspects of nickel alloys with the lightweight characteristics of titanium. AMG's TiAl materials are used to produce low-pressure turbine blades for the PurePower® PW1100G-JM engine. This TiAl technology helps set the engine apart from today's conventional turbofans, including a 50% reduction in noise and a 15% cut in fuel consumption and emissions. Certification, ramp-up of production and delivery of the first engines will occur over the next few years.

AMG Titanium Alloys and Coatings is a world-leader in the production of advanced materials for the aerospace industry. AMG TAC is the largest qualified provider of TiAl feedstock for all major commercial turbine engine manufacturers.

About AMG

AMG creates and applies innovative metallurgical solutions to the global trend of sustainable development of natural resources and CO2 reduction. AMG produces highly engineered specialty metal products and advanced vacuum furnace systems for the Energy, Aerospace, Infrastructure, and Specialty Metals and Chemicals end markets.

AMG Processing develops and produces specialty metals, alloys, and high performance materials. AMG is a significant producer of specialty metals, such as ferrovanadium, ferronickel-molybdenum, aluminum master alloys and additives, chromium metal and ferrotitanium, for Energy, Aerospace, Infrastructure and Specialty Metal and Chemicals applications. Other key products include specialty alloys for titanium and superalloys, coating materials and vanadium chemicals.

AMG Engineering designs and produces advanced vacuum furnace systems, and operates vacuum heat treatment facilities, primarily for the Aerospace and Energy (including solar and nuclear) industries. Furnace systems produced by AMG include vacuum remelting, solar silicon melting and crystallization, vacuum induction melting, vacuum heat treatment and high pressure gas quenching, turbine blade coating and sintering. AMG also provides vacuum case-hardening heat treatment services on a tolling basis.

AMG Mining produces critical materials utilizing its secure raw material sources in Africa, Asia, Europe, and South America. AMG Mining produces critical materials such as high purity natural graphite, tantalum, antimony and silicon metal. These materials are of significant importance to the global economy and are

available in limited supply. End markets for these materials include electronics, energy efficiency, green energy, and infrastructure.

With over 3,000 employees, AMG operates globally with production facilities in Germany, the United Kingdom, France, Czech Republic, United States, China, Mexico, Brazil, Turkey, Poland, India, and Sri Lanka, and has sales and customer [service](#) offices in Russia and Japan (www.amg-nv.com).

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Disclaimer

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[6 October 2014](#)

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