



## **AMG ADVANCED METALLURGICAL GROUP N.V. SELECTED BY SNECMA TO PROVIDE TITANIUM ALUMINIDES FOR THE CFM INTERNATIONAL LEAP ENGINE**

**Amsterdam, 1 July 2014** --- AMG Advanced Metallurgical Group N.V. ("AMG", Euronext Amsterdam: "AMG") announces that AMG Titanium Alloys and Coatings ("AMG TAC") has been selected by SNECMA to provide titanium aluminides ("TiAl") for production of the CFM International LEAP engine.

TiAl combines the heat resistance aspects of nickel alloys with the lightweight characteristics of titanium. AMG's TiAl materials will be used to produce low-pressure turbine blades for the LEAP engine, which will be used in single aisle aircraft. These TiAl blades, resistant to very high temperatures (750° C), will replace nickel-based superalloys, reducing the mass and weight of the blades and creating a more efficient engine. This lightweight material will significantly contribute to the improved performance of this new engine, which will reduce fuel consumption by 15% compared to the best engine in its class.

AMG is currently supplying TiAl, and mass production is expected to begin in 2016. AMG TAC will invest in three new AMG Engineering ALD Vacuum Technologies furnaces in order to meet the contracted demand. The combined value of current and future supply exceeds \$50 million.

AMG Titanium Alloys and Coatings is a world-leader in the production of advanced materials for the aerospace industry. AMG TAC is 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 CO<sub>2</sub> 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](http://www.amg-nv.com)).

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