

Capital Markets Day AMG Superalloys June 3, 2014



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Introduction to AMG Superalloys



AMG Processing

- Aluminum master alloys
- Vanadium
- Titanium alloys and coatings
- Superalloys



AMG Engineering

- Capital equipment for high purity materials
- Heat Treatment Services

AMG Mining

- Silicon metal
- Natural graphite
- Antimony
- Tantalum & Niobium

Energy



Aerospace



Infrastructure



Specialty Metals & Chemicals

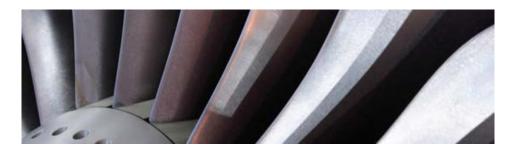


AMG provides high value-added specialty metal alloys and engineering systems related to CO₂ reduction and conservation of natural resources to growing markets



What is a Superalloy?

- Superalloys are materials that exhibit:
 - Excellent mechanical strength
 - Temperature and expansion resistance, and;
 - Good corrosion and oxidation resistance making them well suited for turbine blades of jet engines
- Superalloys are commonly used in:
 - Parts of gas turbine engines subject to high temperatures
 - Jet engine turbine blades
- Chromium, AMG Superalloys primary product, permits jet engines to operate in a high-temperature, high-stress, oxidizing environment





Introduction to AMG Superalloys

- AMG Superalloys is a highly specialized producer of:
 - Chromium metal
 - Ferro titanium & ferro niobium
 - Nickel niobium
 - Aluminum powders and;
 - Cerium oxide polishing powders
- AMG Superalloys products are used in the following markets:

Aerospace

- Aluminum
- High Purity Steel
- Superalloy
- Hard-facing
- Welding and;
- Optical glass industries





Introduction to AMG Superalloys

- Headquartered in Rotherham, UK
- Four manufacturing plants
 - **(3 ISO 9001)**
 - ~230 employees
- Comprehensive range of products
- ~\$160 million in 2013 revenue
- Management
 - Mr Julien Crisnaire, President
 - Mr. Kevin Lawson, Managing Director
 - Ms. Leonora Scaife, Finance Director











AMG Superalloys UK is a leading provider of specialty metals, alloys and materials





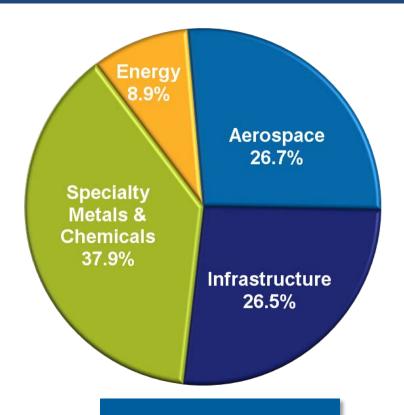
AMG & AMG Superalloys

AMG Revenue

Energy 18.8% **Specialty Metals** & Chemicals **Aerospace** 28.5% 40.3% Infrastructure 12.4%

Aerospace is AMG's largest end market segment

AMG Superalloys Revenue



Aerospace is a significant market for AMG Superalloys



AMG Superalloys for Jet Engines

COMPRESSOR BLADES

Cobalt

Chromium Niobium Tantalum

Titanium Tungsten Vanadium (Ti Alloys)

COMPRESSOR DISCS

Cobalt

Chromium

Hafnium

Tantalum

Titanium Tungsten Vanadium (Ti Alloys)

LP TURBINE BLADES

Cobalt

Chromium Niobium Tantalum

Tungsten

HP TURBINE DISCS

Cobalt

Chromium Tantalum

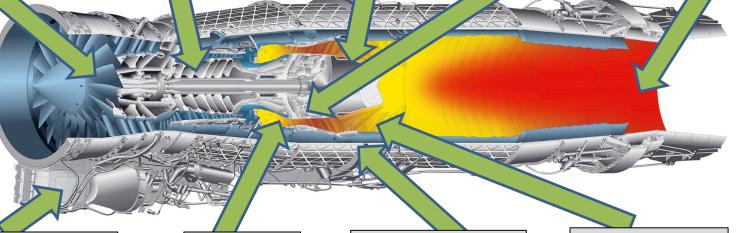
Tungsten

EXHAUST

Cobalt

Chromium

Rare Earths Tungsten



ANCILLARIES & CONTROL SYSTEMS

Cobalt Rare Earths

Tantalum

COMBUSTOR

Cobalt

Chromium

Rare Earths Tungsten

Materials produced by AMG Superalloys

HP TURBINE BLADES

Cobalt

Chromium

Hafnium

Platinum

Rhenium

Rare Earths

Tantalum

Tungsten

LP TURBINE DISCS

Cobalt

Chromium Niobium Tantalum

Tungsten





Key Products – Chrome

Products:

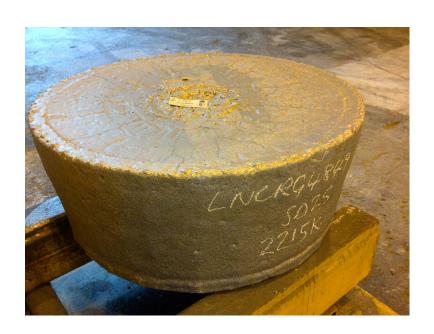
- From regular grade for steel industry...
- ...To high purity grades for superalloy applications

Use:

- Chromium provides heat and corrosion resistance in aircraft engines
- Small component of overall superalloys cost

Markets:

- Aircraft engines
- Industrial gas turbines
- Stainless steels
- Al & Cu alloys





Key Products – Aluminothermic Chrome

Alumina Slag

Chrome Metal

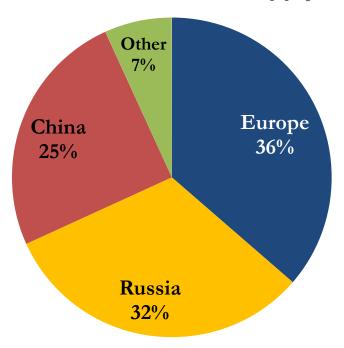
- Chrome Oxide is created from Chrome Ore
 - 95% of chrome ore is used to create ferrochrome for steel
 - ~4% of chrome ore is used to create chrome chemicals (oxides)
 - Chrome oxide primarily produced in South Africa, Russia and Kazakhstan





Key Products – Aluminothermic Chrome

2013 Chrome Metal Supply



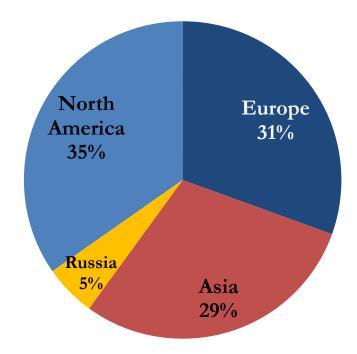








2013 Chrome Metal Demand (1)









Key Products – Aluminum Powders

- Products:
 - Aluminum powders
 - Aluminum granules
- Use:
 - Chrome metal
 - Rocket fuel
 - Paints and pigments
- Markets:
 - Autos
 - Aerospace
 - Chemicals





Key Products – Polishing Powders

Products:

- Glass and plastics polishing compounds and glass decolorizers
 - RegipolTM cerium oxide based
 - DecolTM cerium oxide based
 - Polimax[™] aluminum oxide based

Use:

- Flat glass (main current market for AMG)
- Precision optics (growth opportunity for AMG)

Markets:

- Infrastructure
- Optics
- Electronics











Other Products & Applications

Boron

- Hard face coating
- Superalloys & stainless steels
- Magnet alloys



Niobium

- Steels & Superalloys
- Super conducting magnets
- Construction



Titanium

- Stainless & high strength low alloy steels
- Deoxidant
- Complex alloys



Powders

- Complex alloys & powders
- Welding industry
- Copper Alloys for bronze production



Laboratory

- Inorganic analytical testing services
- Multiple accreditations







Operations

- Restructured business in Q4 2013
 - New management team installed
 - New Kaizen / continuous improvement culture kick started
 - Focus on
 - Improving Environmental Health & Safety (EH&S)
 - Improving gross margins
 - Reduced fixed costs and SG&A (10% headcount reduction)
 - Rationalized low margin / ROCE products
 - Implemented systems to reduce raw material price risk
 - Right-sized production levels to current market demand
 - Reducing working capital
 - Improved terms with suppliers and customers
 - Improved value chain management
- All with the goal to improve ROCE and increase operating cash flow





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