



Aluminum master alloys and grain refiners for the aluminum industry

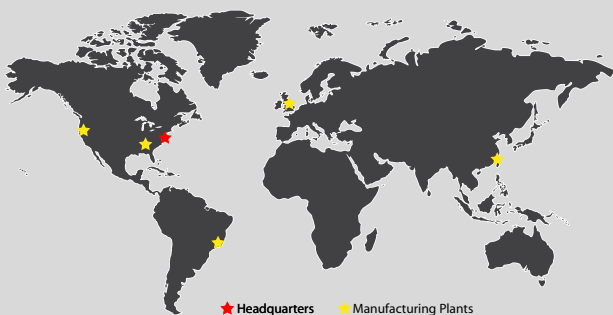


Headquartered in Wayne, PA, AMG Aluminum, a business unit of AMG Advanced Metallurgical Group N.V., is the combination of AMG Aluminum North America, LLC, AMG Aluminum UK Limited, AMG Aluminum Brasil (aluminum activities of LSM Brasil S.A.), AMG Aluminum Mexico, S.A. de C.V., and AMG Aluminum China Limited.

With over 350 employees and five ISO 9001 manufacturing plants in the United States, Brazil, England, and China, AMG Aluminum is a world-leading provider of master alloys and grain refiners for the aluminum industry.

AMG Aluminum offers a comprehensive range of products including grain refiners (titanium, boron, and carbon-based), hardeners (chromium, copper, magnesium, manganese, nickel, vanadium, scandium, silicon, zirconium, and others), tablets/compacts (chromium, copper, iron, manganese, titanium, and others), strontium modifiers for hypoeutectic and eutectic aluminum silicon alloys, specialty alloys (beryllium, boron, gallium, lithium, scandium, and others), mechanical alloys, and chemicals and fluxes (potassium aluminum fluoride, potassium fluoroborate, and others).

AMG Aluminum is a customer-focused, technology-driven, and global organization dedicated to innovation, quality, technical expertise, and rapid response to customer needs. For more than 50 years, AMG Aluminum has earned a trusted reputation for reliable delivery of dependable aluminum master alloys and grain refiners anywhere in the world.



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. 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 Belgium, Russia, and Japan (www.amg-nv.com).



www.amg-nv.com

AMG Aluminum

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May 2014



PRODUCT RANGE

GRAIN REFINERS

Titanium	
6% Ti	1,2,3,4,6,9
10% Ti	4,6

Titanium Boron

3% Ti - 1% B	1,3,4,6,9
5% Ti - 1% B	1,3,4,6,9
3% Ti - 0.2% B	1,3,4,6
5% Ti - 0.2% B	1,3,4,6,9
5% Ti - 0.6% B	1,3,4,6
1.7% Ti - 1.4% B	1,3,4,6,9
2.5% Ti - 2.5% B	1,3,4,6,9
10% Ti - 1% B	2,4,6,9

Titanium Carbon

3% Ti - 0.15% C	1,3,4
5% Ti - 0.18% C	1,3,4

SPECIALTY ALLOYS

Beryllium

1% Be	1,10
2.5% Be	9
5% Be	10

Boron

3% B	1,3,4,6
4% B	1,3,4,6
5% B	1,3,4,6
6% B	6
8% B	6
10% B	4,6

Strontium

3.5% Sr	1
5% Sr	2,3,4,5,6
10% Sr	2,3,4,5,6,9
12% Sr	2,3,4,5,6,9
15% Sr	2,3,4,5,6,9
20% Sr	5,6
5% Sr - 1.7% Ti - 1.4% B	2,3,4,5
10% Sr - 1% Ti - 0.2% B	2,3,4,5,6,9

FLUORIDE SALTS

KAIF / PAF	11
KBF4	11
K2TIF6	11

HARDENERS

Bismuth	
3% Bi	6
8% Bi	6
10% Bi	6

Calcium	
7.5% Ca	1,4,6
10% Ca	6

Chromium	
10% Cr	6,8
20% Cr	6,8

Copper	
20% Cu	7
33% Cu	6,7
50% Cu	7
54% Cu	8

Iron	
10% Fe	6
20% Fe	6
25% Fe	6
15% Fe - 7.5% Si	6

Lead	
8% Pb	6

Magnesium	
10% Mg	6
20% Mg	6
25% Mg	6
50% Mg	8
68% Mg	6,7,9

Manganese	
10% Mn	6
20% Mn	6
25% Mn	6,7

Nickel	
10% Ni	6
20% Ni	6

Silicon	
20% Si	6
25% Si	6
36% Si	6,7
50% Si	6

HARDENERS

Vanadium	
2.5% V	6
5% V	6
10% V	6

Zirconium	
4% Zr	1,6
5% Zr	6
6% Zr	6
10% Zr	6
15% Zr	6

Zirconium Vanadium	
3% Zr - 2% V	4,6
6% Zr - 4% V	6

Other Hardeners	
2% Sc	6
7% Ga	6
10% Co	6
10% Mo	6
25% Ag	6
50% Ag	6
50% Zn	6

OTHER ALLOYS

1100	1
1350	1
4043	1
4047	1
5005	1
6061	1
6063	1
6201	1
6351	1
Deox	1

TABLETS *

Chromium	
75% Cr	12
80% Cr	12
85% Cr	12

Copper	
75% Cu	12
80% Cu	12
85% Cu	12
90% Cu	12
100% Cu	12

Iron	
75% Fe	12
80% Fe	12
85% Fe	12
90% Fe	12

Manganese	
75% Mn	12
80% Mn	12
85% Mn	12
90% Mn	12

Nickel	
75% Ni	12
80% Ni	12
85% Ni	12

Titanium	
75% Ti	12
80% Ti	12
100% Ti	12

Zinc	
75% Zn	12
80% Zn	12
85% Zn	12

* Available with or without flux

PRODUCT FORMS

1 - Coiled Rod	7 - Slab / Super Slab
2 - Conformed Coiled Rod	8 - Broken Ingot / Slab / Waffle
3 - Cut Rod	9 - Button / Pyramid
4 - Sheared Bar	10 - Notched Bar
5 - Conformed Bar	11 - Granular
6 - Waffle / Sheared Waffle	12 - Tablet



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