






## TITANIUM CARBON ALUMINUM GRAIN REFINERS

In casthouse applications, the control of grain size is absolutely essential in maintaining product consistency and quality, reducing costs, and maintaining high levels of productivity. The controlled addition of AMG Aluminum's titanium carbon aluminum grain refiners to molten aluminum releases nucleant particles that promote equiaxed, fine grain structures throughout the cast alloy, thus avoiding formation of columnar crystals. Casting speed can also be increased.

Alloy	Designation	Color Code	Chemical Composition (maximum unless shown as a range)							Others		Form
			Ti	C	Si	Fe	B	V	Each	Total		
<b>3% Ti - 0.15% C</b>	AA-H2231		2.6-3.4	0.08-0.22	0.30	1.5	0.004	0.30	0.03	0.10	Rod	
<b>3% Ti - 0.30% C</b>			2.6-3.4	0.25-0.35	0.30	0.30	0.004	0.30	0.03	0.10	Rod	
<b>5% Ti - 0.18% C</b>	AA-H2258		4.5-5.5	0.13-0.23	0.30	0.35	0.005	0.30	0.03	0.10	Rod	



[www.amg-nv.com](http://www.amg-nv.com)

### AMG Aluminum

Building 300 | 435 Devon Park Drive | Wayne, PA 19087 USA  
[info@amg-al.com](mailto:info@amg-al.com) | [www.amg-al.com](http://www.amg-al.com)

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