



Magnesium Aluminum Powders for Defense Applications

Luxfer MEL Technologies produces magnesium-aluminum powders for a variety of applications to support the U.S. Army, Navy, Air Force, and allied governments. Magnesium Aluminum powders are manufactured to the highest standards using state-of-the-art equipment and highly engineered processes.

Our ability to control particle shape and size and to reproduce particle size distributions and particle morphology from drum-to-drum and lot-to-lot sets us apart in the metal powders industry. Short lead-times allow us to react quickly to our customers' changing demands.

Applications

- Small caliberammunition
- Pyrotechnics
- Tracer Rounds
- Other specialty applications

Specification

MIL-DTL-454 w/Am.1 dated 06 February 2025

Form

Granular

Standard granulation

- Passing 100-mesh: 99.5% min.
- Passing 120-mesh: 98% min.
- Passing 230-mesh: 45-65%



Chemical composition – Type A powder

Magnesium	50.0 ± 2.0%
Aluminum	50.0 ± 2.0%
Total magnesium and aluminum (min.)	98.0%
Oxides as Al ₂ O ₃ , (max.)	2.0%
Iron as Fe (max.)	0.75%
Silicon as Si (max.)	0.5%
Other metals (max.)	0.5%
Zinc as Zn (max.)	0.1%
Grease and fats (max.)	0.01%
Moisture (max.)	0.05%
Grit (max.)	0.1%

Discover more at
www.luxfermeltechnologies.com

† The information contained within is meant as a guideline only

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