



Applications

- Infrared countermeasure flares
- Illumination flares
- Signal flares
- Training simulators

Specifications

MIL-DTL-14067D w/
AMENDMENT 1,
16 March 2019

Form

- Type I - Magnesium Powder, Atomized
- Type IV - Magnesium Powder, Ellipsoidal

For more detailed information, please contact:

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Pure Magnesium Powders for Military Applications

MIL-DTL-14067D w/AMENDMENT 1, 16 March 2019

Luxfer Magtech produces pure magnesium powders for a variety of applications to support the U.S. Army, Navy, Air Force, and allied governments. Pure magnesium 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.

Standard Granulations

Type I - Atomized Magnesium*

	Percent Passing By Weight					
	Nominal mesh size	20/50	30/50	50/100	100/200	200/325
U.S. Standard Sieve No.	16	100 min	---	---	---	---
	20	95 min	95 min	---	---	---
	30	70 min	85 min	95 min	100 min	---
	50	20 max	40 max	70 min	90 min	---
	60	10 max	25 max	---	---	---
	100	---	5 max	40 max	50 min	---
	140	---	---	20 max	---	---
	200	---	---	5 max	30 max	99.5 min
	325	---	---	---	5 max	60.0 min

*Other granulations available upon request.

Type IV - Ellipsoidal Magnesium

	Percent Retained On	
	Nominal mesh size	30/50
U.S. Standard Sieve No.	20	0.1 max
	30	7.0 max
	40	43-53
	50	40-56
	60	0-30
	Thru 60	0-0.1

Chemical Composition

	Types I and IV Powder
Magnesium, % min.	98.0
Volatile material at 105 °C, % max.	0.1
Oil and grease, % max.	0.02
Total Fe, % max.	0.22
Carbides, % max.	0.004