



**LUXFER**  
MEL TECHNOLOGIES

## Pure Magnesium Powders for Military Applications

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

Luxfer MEL Technologies 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.

### **Applications**

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



### **Specifications**

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### **Form**

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

## Standard granulations

### Type I – Atomized magnesium\*

U.S. standard sieve No.	Percent passing by weight					
	Nominal mesh size	20/50	30/50	50/100	100/200	200/325
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

U.S. standard sieve No.	Percent retained on	
	Nominal mesh size	30/50
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

Discover more at

[www.luxfermeltechnologies.com](http://www.luxfermeltechnologies.com)

† The information contained within is meant as a guideline only

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