



Pure Magnesium Powders for Industrial Applications

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

- Welding electrodes
- Chemical processes and reactions
- Food and beverage
- Pyrotechnics
- Steel desulfurization
- Powder metallurgy

Form

- Flaked and/or chipped
- Granular or spheroidal (atomized)



Standard granulations

Nominal mesh size	Nominal micron size
30 to 100 mesh*	150 to 595 μm *
100 to 200 mesh	75 to 150 μm
-200 mesh	-75 μm
-325 mesh	-45 μm

*Available in both standard purity and high purity chemistries.

Other particle size distributions available upon request.

	Flaked and/or chipped	Granular or spheroidal (atomized)
Higher density		✓
Better flowability		✓
Greater surface area	✓	

Chemical composition

Standard purity		
Mg	(min.)	99.80%
Cu	(max.)	0.02%
Pb	(max.)	0.01%
Mn	(max.)	0.10%
Ni	(max.)	0.00%
Na	(max.)	0.01%
Sn	(max.)	0.01%
Other elements, each	(max.)	0.05%

High purity		
Mg	(min.)	99.95%
Al	(max.)	0.005%
Mn	(max.)	0.004%
Fe	(max.)	0.006%
Si	(max.)	0.001%
Ni	(max.)	0.001%
Cu	(max.)	0.001%
Na	(max.)	0.002%
Pb	(max.)	0.001%
Sn	(max.)	0.0005%
Zn	(max.)	0.0003%
Ti	(max.)	0.001%
B	-	-
Cd	-	-
Other elements, each	(max.)	0.1%

About us

Luxfer MEL Technologies is the leading manufacturer of magnesium chips, granules, powders and pieces used in diverse industries worldwide. As a founding member of the International Magnesium Association with over 75 years of experience, customers trust us to develop unique solutions for their critical applications. We manufacture and market an array of ground and inert-gas atomized powder products – pure magnesium, magnesium alloys (including our proprietary Elektron® MAP branded products) and PTFE powders.

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. Customized packaging and short lead times allow us to serve a number of industries including defense, aerospace, healthcare, pyrotechnics, chemical processing, and a number of other industrial and commercial applications.

Discover more at

www.luxfermeltechnologies.com

† The information contained within is meant as a guideline only

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