



## Uncoated Pieces

A variety of cut, uncoated, pure magnesium pieces ranging in weights from 1/4-pound to 10 pounds are available.

## Coated Pieces

Luxfer Magtech also offers refractory-coated pure magnesium pieces. These cut, coated magnesium pieces are available in a range of weights from one pound to eight pounds.

For more detailed information, please contact:

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# Pieces

Pure magnesium pieces are frequently used in foundry operations where the addition of smaller precise amounts of magnesium is needed, like in the production of ductile iron using the plunging and converter processes. To minimize losses associated with burning in molten iron melts, some foundries take advantage of the refractory-coated magnesium pieces offered by Luxfer Magtech.

Pure magnesium pieces are also utilized in direct alloying foundry applications where operators need the ability to add specific amounts of pure magnesium to achieve the desired alloy chemistry.

Nominal Weight	Nominal Dimensions	Type	Chemistry
4 ounces to 2 pounds	Dimensions vary	Uncoated	Ultra-high and standard purity (size dependent)
300 grams	1" x 2-3/4" x 8"	Uncoated	Ultra-high and standard purity
1/2-pound	1/2" x 2-3/4" x 8"	Uncoated	Ultra-high and standard purity
1/4-pound	1/2" x 2-3/4" x 4"	Uncoated	Ultra-high and standard purity
1-pound	1" x 2-3/4" x 8"	Uncoated and Coated	Ultra-high and standard purity
5 to 6 pounds	5" x 2-3/4" x 8"	Uncoated and Coated	Ultra-high and standard purity

\*Other sizes and weights available.



## Chemical Composition

Standard Purity Magnesium*		
Element		%
Cu	<	0.02
Pb	<	0.01
Mn	<	0.10
Ni	<	0.001
Na	<	0.006
Sn	<	0.01
Other Elements, each	<	0.05
Total of all impurities	<	0.20
Mg	≥	99.8

\*Grade 9980A UNS M19980 per ASTM B92

Ultra-High Purity (UHP) Magnesium		
Element		%
Al	<	0.008
Mn	<	0.005
Zn	<	0.001
Ca	<	0.001
Zr	<	0.005
Si	<	0.005
Cu	<	0.001
Fe	<	0.007
Ni	<	0.001
Pb	<	0.002
Na	<	0.001
Ti	<	0.010
Sn	<	0.002
Other Elements, each	<	0.010
Mg	≥	99.98

## About Us

Luxfer Magtech 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.

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