

Magnesium

High Purity Metal

Characteristics

- ✓ High density
- ✓ Low impurity content
- ✓ Corrosion-resistant
- ✓ very chemically active
- ✓ Good conductivity

Quick Facts

Molecular Formula	:	Mg
Molecular Weight	:	24.31 g/mol
Density	:	1.74 g/cm ³
Melting Point	:	648 °C
Boiling Point	:	1090 °C
Thermal Conductivity	:	0.37W/(mK)
Electrical Resistivity	:	43.9μΩcm (at 20 °C)
Thermal Expansion	:	24.8μm/(mK) (at 25 °C)
Heat of Fusion	:	2.16 Cal/gm mole
Specific Heat	:	0.243 Cal/g/K @ 25 °C

Purity : 99.9%

Magnesium metal is an interesting material for the storage of hydrogen because of its low cost and high hydrogen storage capacity. Magnesium is silvery white and very light. Its relative density is 1.74g/cm³. Magnesium is known for a long time as the lighter structural metal in the industry, due to its low weight and to its capability of forming mechanically resistant alloys.

Benefits

- ✓ Lightweight constructions in automotive
- ✓ Aircraft and aerospace applications
- ✓ Hydrogen water stick
- ✓ Aluminum metal products
- ✓ Missile construction
- ✓ E-beam evaporation
- ✓ Semiconductor
- ✓ Evaporation materials and high purity metals for Optics,
- ✓ Wear Protection, Microelectronics
- ✓ Large Area Coating applications
- ✓ Filter elements



High Purity

Magnesium

Available in:

Pieces | Rods | Shots | Chips | Pellets | Wires | Ingots | Bars | Granules



202ICE4588C



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202ICE4588M

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CERTIFIED COMPANY

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