



Applications

- Welding electrodes
- Chemical processes and reactions
- Flameless radiation heaters
- Pyrotechnics
- Hydrogen-infused beverages
- Steel desulfurization
- Powder metallurgy

Form

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

For more detailed information, please contact:

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Pure Magnesium Powders for Commercial 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.

Standard Granulations

| Nominal Mesh Size | Nominal Micron Size |
|-------------------|---------------------|
| 18 to 80 mesh | 175 to 1000 µm |
| 30 to 100 mesh | 150 to 595 µm |
| 40 to 100 mesh | 150 to 400 µm |
| -50 mesh | -300 µm |
| 70 to 170 mesh | 90 to 210 µm |
| 100 to 200 mesh | 75 to 150 µm |
| -100 mesh | -150 µm |
| 200 to 325 mesh | 45 to 75 µm |
| -200 mesh | -75 µm |
| -325 mesh | -45 µm |

*Other particle size distributions available upon request.

Comparison of Form

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

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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