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DATA SHEET:

Elektron® MAP+21



For more detailed information, please contact:

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United States

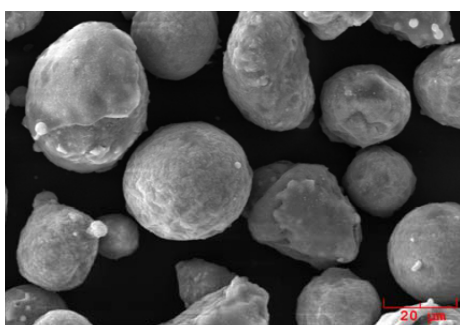
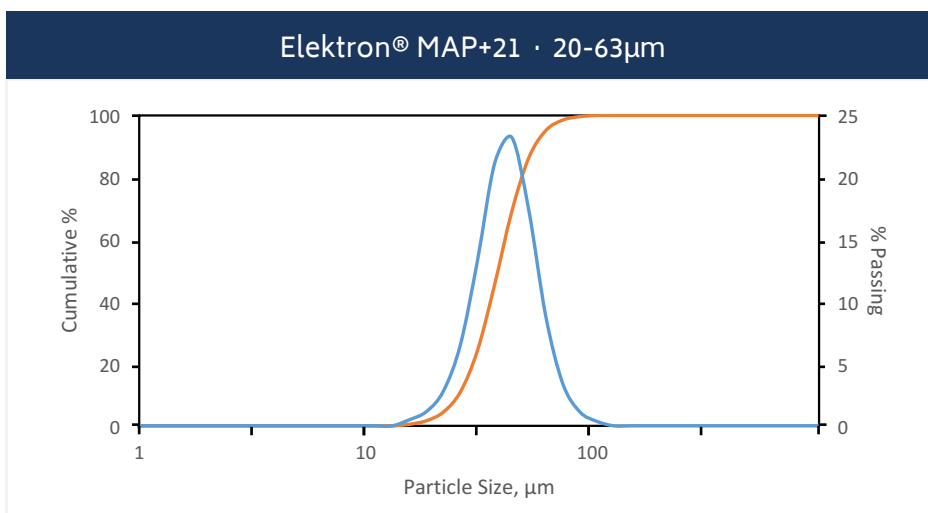
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Magnesium Alloy Powder for Additive Manufacturing

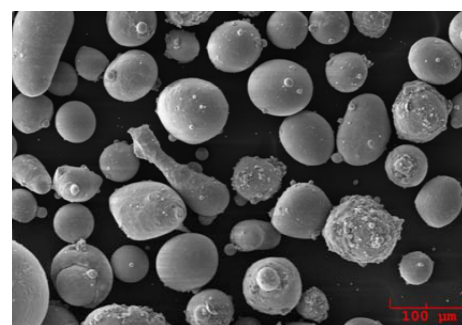
Elektron® MAP+21 is a high performance gas atomized magnesium alloy powder, specifically designed and optimized for additive manufacturing (3D-Printing) applications.

It is based on a rare earth containing magnesium casting alloy, Elektron® 21 (ASTM: EV31A), a lightweight high performance alloy designed for motorsport and aerospace applications, with superior mechanical properties and improved corrosion resistance.

Elektron® MAP+21 Powders are available in a range of particle size distributions: (a) 20 to 63 μm , (b) 44 to 160 μm , or (c) customized.

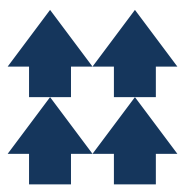


20 to 63 μm



44 to 160 μm

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Elektron® 21 Chemistry (EV31A)

Element		Specification	Typical
		wt. %	wt. %
Zinc	Zn	0.2 to 0.5%	0.3%
Neodymium	Nd	2.6 to 3.1%	2.7%
Gadolinium	Gd	1.0 to 1.7%	1.3%
Zirconium	Zr	Saturated	0.6%
Magnesium	Mg	Balance	Balance

Elektron® MAP+21 Powder Characteristics

Particle Size Distribution	Apparent Density	Tap Density	Flow Rate	Laser Diffraction Size		
	g/cm ³	g/cm ³	s/50g	D ₁₀	D ₅₀	D ₉₀
				µm	µm	µm
20-63 µm	0.92	1.1	200	25	38	55
44-160 µm	1.00	1.1	79	50	95	163

For a Range of Additive Manufacturing Technologies

- Selective Laser Sintering
- Direct Metal Laser Sintering
- Electron Beam Melting
- Laser Engineered Net Shapes
- Direct Metal Deposition
- Cold Spray Deposition
- Friction Stir Additive Manufacturing
- Other Additive Manufacturing Technologies

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