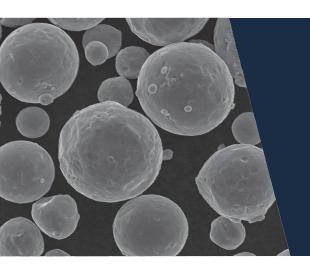
# **ALUMINUM ALLOYS**



## **Aluminum Alloys**

Cover a wide range of additive manufacturing applications. Al-Si10Mg (EN AC 4300) is one of the most common and standardized aluminum alloys used for all sectors because it exhibits a good balance of mechanical properties. For fine structure printing with respect to surface roughness, the fine grain size of 15-53 is the perfect choice. Coarser powder (20-63) with less fines, allows for increased printing speeds at the cost of surface quality. Each application may require a best fit material not covered with the market standard, there we have the flexibility to adjust your powder to your needs.

CONTACT INFORMATION
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- > Spherical Powder for Additive Manufacturing
- > Particle Size Engineered for Laser Powder Bed Fusion (LPBF), and Electron Beam Melting
- > Rigorous Quality Testing of each powder lot
- Powder Size Available for Metal Injection Molding and DED, "Direct energy deposition"

### **Powder Characteristics**

JAN 7		Powder Properties			
Size Type	D10	D50	D90	Flow	AD
<25	6	15	23		1.35 g/cm³
15-63	20	35	50		1.3 g/cm³
45-105	50	75	103		l.l g/cm³

### AlSi7Ma0.5

Chemical Composition Nominal (wt%)			Maximum (wt%)							
Aluminum	Silicon	Magnesium	Iron	Titanium	Manganese	Copper	Zinc	Selenium	Lead	Oxygen
Bal.	7.0	0.6	0.5	0.15	0.1	0.05	0.1	0.05	0.05	0.1

#### AISi10Ma

Chemical Composition Nominal (wt%)				Maximum (wt%)				
Aluminum	Silicon	Magnesium	Iron	Manganese	Copper	Titanium	Zinc	Oxygen
Bal.	10.0	0.3	0.5	0.4	0.05	0.15	0.1	0.1

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