TEKMAT™ AlSi7Mg-63/20-F357

Aluminum Alloy Spherical Powder

- Product no.: 39238
- Data Sheet no.: v39238-18-1
- Composition: AMS4289 (F357)
- Size Fraction: - 63 + 20 µm

TEKMAT™ AlSi7Mg-63/20-F357 :

- Plasma atomized powder
- High purity material
- Excellent flowing properties
- High packing density

Technical Specifications

Particle Size Distribution

• Sieve Analysis (ASTM B214) - µm, wt%

Size (µm)	Min	Max
+75	---	0.5
+63	---	5
-63	95	---

• Laser scattering (ASTM B822) - µm, vol%

Size	Min	Max
D10	20	---
D50	---	---
D90	---	70

Density & Flow

Tap Density: ≥ 1.5 g/cm^3

Apparent Density: ≥ 1.3 g/cm^3

Flow Test (SLM Funnel) : < 70 sec./50g

Chemical Composition

7.0Si - 0.55Mg - 0.12Ti (F357)
Meets AMS4289 Table 1

Silicon (Si):	6.5 – 7.5%
Iron (Fe):	≤ 0.10%
Copper (Cu):	≤ 0.20%
Manganese (Mn):	≤ 0.10%
Magnesium (Mg):	0.40 – 0.7%
Zinc (Zn):	≤ 0.10%
Titanium (Ti):	0.04 – 0.20%
Beryllium (Be):	≤ 0.002%
Carbon (C):	to be reported
Hydrogen (H):	to be reported
Nitrogen (N):	to be reported
Oxygen (O):	to be reported
Other, each:	≤ 0.05%
Other, total:	≤ 0.15%
Aluminum (Al):	Balance

Manufactured by **Tekna Advanced Materials Inc.**
an AS9100D / ISO 9001:2015 certified company.
Validation by D.Heraud & J.-F.Carrier on Sep 14, 2018

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