



LABORATORY TESTING INC.

Metal Powder Characterization

ISO / ASTM 52907

**Ideal
Sample
Size**

Chemical Composition	10g
PSD-Laser Diffraction, ASTM B822*, Microtrac	2g
PSD-Sieve Analysis, ASTM B214*	200g
Particle Size, Dynamic Image Analysis, ISO 13322-2, Microtrac	2g
Morphology via SEM	1g
Flow Rate, ASTM B213* & B964	100g
Apparent Density, ASTM B212* & B417*	150g
Tap Density, ASTM B527*	150g
Skeletal Density, ASTM B923*	100g
Moisture Content – Karl Fischer	10g
Cross Contamination, EDX/EDS	1g
Contamination at 20X	1g

**and ISO equivalent*

Sieve Screen Size - ASTM B214*

Mesh Size	Micron	Mesh Size	Micron
20	850 μm	200	75 μm
30	600 μm	230	63 μm
40	425 μm	270	53 μm
60	250 μm	325	45 μm
80	180 μm	400	38 μm
100	150 μm	450	32 μm
120	125 μm	500	25 μm
140	106 μm	635	20 μm

**and ISO equivalent*



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Materials Testing

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