



Chemical and Physical Characteristics of VALIMET Spherical Aluminum Powder Specifications

| | H-2 | H-3 | H-5 | H-10 | H-15 | H-30 | H-50 | H-60 | H-95 |
|--|-----------|-----------|-----------------------|-----------|--------------------------------|------------------------|-----------|-------------------|-----------|
| Aluminum, Wt. %, Min. | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 | 99.7 |
| Volatile, wt. %, Max. | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Oil & Grease, wt. %, Max. | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Iron, wt. %, Max. | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| APS (Fisher) Min. | 2.0 | 3.0 | 4.5 | 8.0 | 14.0 | 20.0 | -- | -- | -- |
| APS (Fisher) Max. | 3.0 | 4.5 | 7.0 | 12.0 | 18.0 | 30.0 | -- | -- | -- |
| Sieve Analysis | | | | | | | | | |
| -80, wt. % | -- | -- | -- | -- | -- | -- | -- | -- | 100 |
| -100, wt. %, Min. | -- | -- | -- | -- | -- | -- | -- | -- | 95.0 |
| -200, wt. % | -- | -- | -- | -- | -- | 99.5 Min. | 90.0 Min. | 85.0 Min. | 10.0 Max. |
| -325, wt. % | 99.0 Min. | 99.0 Min. | 99.0 Min. | 98.0 Min. | 99.0 Min. | 85.0 Min. | 20.0-40.0 | 15.0 Max. | -- |
| Microtrac Analysis (Nominal Values) | | | | | | | | | |
| 90% | 7.5 | 10.5 | 15.0 | 22.0 | 40.0 | 58.0 | 92.0 | 105.0 | 160.0 |
| 50% | 3.5 | 4.5 | 8.0 | 12.0 | 20.0 | 31.0 | 55.0 | 70.0 | 108.0 |
| 10% | 1.8 | 2.0 | 4.0 | 6.0 | 9.0 | 15.0 | 30.0 | 44.0 | 73.0 |
| Comparable Commercial Specifications | -- | -- | -- | B50TF57B | -- | PWA 1374 | -- | PWA 1320 B50TF57A | PWA 1327 |
| Comparable Military Specifications | -- | -- | MIL PRF 23950B, TP. I | -- | MIL PRF 23950B, TP. II, TP. IV | MIL PRF 23950, TP. III | -- | -- | -- |

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