GHT Co., Ltd.

Aluminum Nitride | AlN / M SERIES

High-purity AlN powder

M series for ceramic raw-material selection.

Application considerations

Consider as a raw-material candidate for ceramic substrates and components. Final sintered-body performance depends on formulation, forming and sintering conditions.

Product specifications by grade

Grade	Mean particle size (μm)	Oxygen content (wt%)
M-G	1.2–1.5	<1.0
M-C	1.2–1.5	<1.0
M-Q	1.5–1.8	<0.7
M-K	1.2–1.8	≤1.0
M-S	1.0–1.4	<1.0
M-QS	1.4–1.8	<0.65

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Aluminum Nitride | AlN / F SERIES

AlN thermally conductive fillers

F series for particle-size-based formulation review.

Application considerations

Consider for thermal pads, greases and adhesives. Composite thermal conductivity and processability require application-specific evaluation.

Product specifications by grade

Grade	D50 (μm)	D90 (μm)
F-007	1.0–1.4	<2.6
F-01	1.2–1.4	<2.8
F-01T	1.3–1.6	<3.5
F-02	1.8–2.2	<4
F-03	2.8–3.5	<6
F-05	5.0–6.0	<10
F-10	9.5–11	<18
F-15	13.5–15	<25

F-20 is under development and is excluded from this guide.

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Aluminum Nitride | AlN / S SERIES

Spherical AlN thermal fillers

S series for spherical filler selection.

Application considerations

Consider as fillers for thermally conductive composites. Loading, viscosity and thermal conductivity must be evaluated with the selected resin and formulation.

Product specifications by grade

Grade	D50 (μm)	Oxygen content (%)	True density (g/cm³)
S-25	25–30	<2.2	3.3
S-30	30–40	<2.1	3.3
S-50C	48–58	<2.1	3.3
S-80C	70–80	<2.1	3.3
S-80	80–90	<2.1	3.3
S-100C	98–108	<2.1	3.3
S-120	120–130	<2.1	3.3

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