

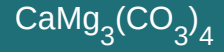
HUNTITE POWDER

Halogen-free mineral flame retardant and functional filler

Supported by laboratory test data: mineral composition and particle size

MINERAL

Huntite



AGL Mining supplies huntite powder from Türkiye to industrial customers. Huntite is a naturally occurring calcium-magnesium carbonate. When heated it decomposes endothermically, absorbing heat and releasing carbon dioxide, which makes it an effective halogen-free flame-retardant additive for polymers and other materials.

87.2 %

Huntite content
Weight %, by XRD

4.08 µm

Median size d50
Laser diffraction

11.31 µm

d90
90 % of particles finer

2.8 m²/g

Specific surface area
Laser diffraction

Why huntite

● Halogen-free flame retardancy

No halogenated additives. A mineral route to flame-retardant compounds.

● Fine particle size

Measured d50 of 4.08 µm and d97 of 16.15 µm, with a top size of 24.65 µm.

● Endothermic decomposition

Absorbs heat as it decomposes and releases CO₂, which dilutes combustible gases. The oxide residue helps form a protective layer.

● Functional mineral filler

Works as a filler while adding flame-retardant function, so it can replace part of the conventional filler in a formulation.

Typical applications

Plastics and polymer compounds

Wire and cable compounds

Rubber products

Paints and coatings

Adhesives and sealants

Other flame-retardant systems

Applications are indicative. Suitability and loading levels should be confirmed in the customer's own formulation trials.

Request a sample or a quotation

Packaging, volumes and delivery terms are available on request.

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www.aglmining.com

Technical Data

Huntite powder · laboratory test results

Mineral composition

Quantitative XRD, Rietveld method, weight %

Phase	Formula	Content (%)
Huntite	$\text{CaMg}_3(\text{CO}_3)_4$	87.2
Magnesite	MgCO_3	6.7
Calcite	CaCO_3	6.1

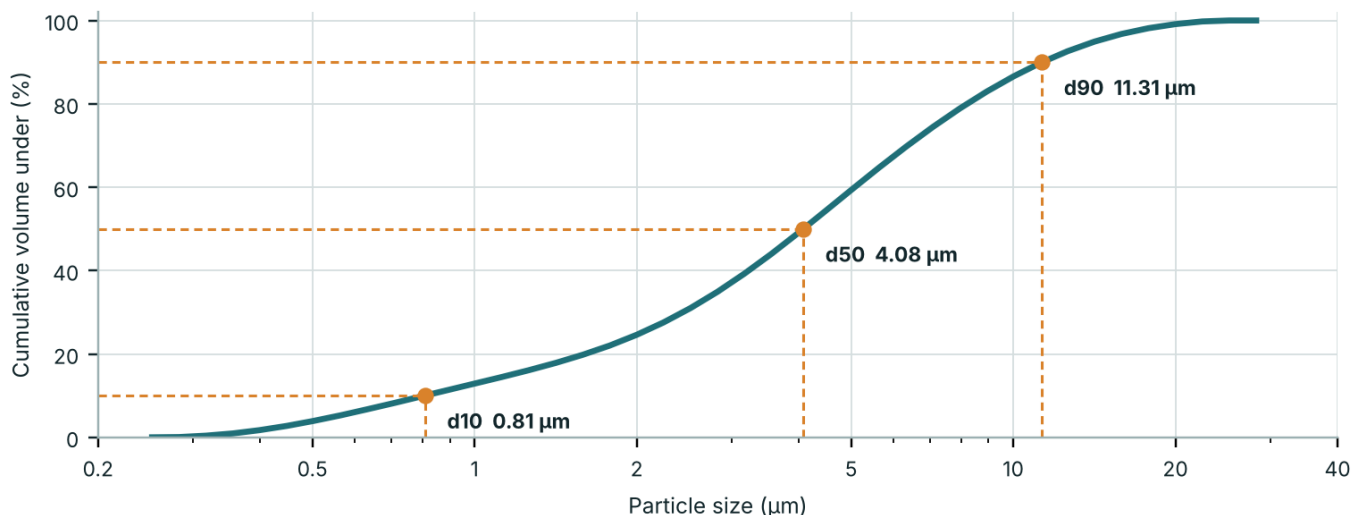
Particle size distribution

Laser diffraction, wet dispersion in alcohol

Parameter	Value
d10 (10 % of particles finer than)	0.81 μm
d50 (median)	4.08 μm
d90	11.31 μm
d97	16.15 μm
d100 (top size)	24.65 μm
Span	2.576
Volume-weighted mean D[4,3]	5.236 μm
Surface-weighted mean D[3,2]	2.140 μm
Specific surface area	2.8 m^2/g

Cumulative particle size curve

Share of the sample volume finer than each particle size



Notes

Values are typical results from single-sample laboratory analyses. The mineral composition and the particle size were measured on separate samples. They are not a product specification or a guarantee. Please contact AGL Mining for current batch data.

In Rietveld analysis, phases below about 2 wt % with low diffraction intensity may not be detected. Compositions are on a dry basis.