

Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

CALCIUM SULFATE ANHYDROUS MICRONISED

Product description: White to off-white micronised calcium sulfate for use as a solid particulate filler in plastics, resin compounds and powder coatings. The particles are intended to remain dispersed as solids in the finished product.

Product identification	Detail
Chemical name	Calcium sulfate, anhydrous
Chemical formula	CaSO_4
CAS number	7778-18-9
EC number	231-900-3
Molecular weight	136.14 g/mol

Product specifications

Property	Specification
Appearance	White to off-white powder
Calcium sulfate content	$\geq 95.0\%$
Moisture	$\leq 1.0\%$
Particle size, D50	3–8 μm
Particle size, D90	$< 25 \mu\text{m}$
Whiteness	$\geq 85\%$
pH, 10% aqueous slurry	6.0–8.0
True specific gravity	Approximately 2.9–3.0
Tapped bulk density	0.80–1.20 g/cm^3
Oil absorption	20–40 g/100 g
Decomposition temperature	Approximately 1,450°C
Lead	$\leq 2 \text{ ppm}$
Cadmium, mercury and arsenic	$\leq 1 \text{ ppm}$ each

Applications

- Rigid PVC compounds requiring a fine, light-coloured mineral filler.
- White polymer concentrates where the mineral is evaluated as a titanium dioxide extender.
- Powder coatings requiring a fine, light-coloured mineral filler.

Processing guidance

Disperse the powder uniformly and control dust during feeding and mixing. The product remains a solid at ordinary polymer-processing temperatures. Confirm its dispersion, retained particle size and

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performance in the intended formulation. Calcium sulfate is slightly soluble in water, so assess suitability where the finished product will have sustained water exposure.

Storage

Store tightly closed in a dry place. Protect from moisture.

Creation date: September 2026

Review date: September 2028

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