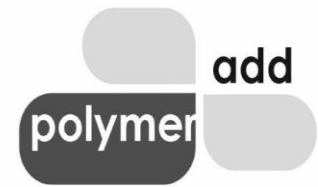


Polymer Add (Thailand) Co.,Ltd.

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Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



TECHNICAL DATA SHEET

CALCIUM SULFATE ANHYDROUS MICRONIZED

PRODUCT CLASSIFICATION

Item	Description
Chemical Name	Calcium Sulfate (Anhydrous)
CAS No.	7778-18-9
HS Code	2520.20.00
EINECS No.	231-900-3
Molecular Formula	CaSO ₄
Molecular Weight	~136.14 g/mol
Synonyms	Anhydrite, Anhydrous Gypsum

PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	White to off-white micronized powder	Visual
Odor	Odorless	Sensory
Purity (CaSO ₄)	≥ 95.0%	XRF
Moisture	≤ 1.0%	Oven drying at 105 °C
pH (10% slurry)	6.0 – 8.0	pH meter
Specific Gravity	~2.9 – 3.0	Pycnometer
Bulk Density	0.80 – 1.20 g/cm ³	Tapped Density
Oil Absorption	20 – 40 g/100 g	ASTM D281
Particle Size (D50)	3 – 8 µm	Laser Diffraction
Particle Size (D90)	< 25 µm	Laser Diffraction
Whiteness	≥ 85%	Reflectance

➤ The commercial product specification may include only a selection of the properties listed above; this additional data is provided for general technical reference.

HEAVY METALS (EU REGULATION 10/2011 – CONTENT LIMITS IN ADDITIVES)

Element	Typical Limit	Test Method
Lead (Pb)	≤ 2 ppm	ICP, AAS
Cadmium (Cd)	≤ 1 ppm	ICP, AAS
Mercury (Hg)	≤ 1 ppm	ICP, CV-AAS
Arsenic (As)	≤ 1 ppm	ICP, AAS

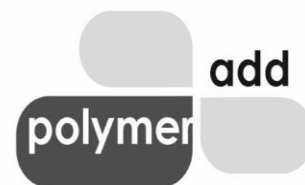
USES / APPLICATION (MICRONISED / SOLID-STATE RELEVANT)

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Industry	Commercial Application / Uses
Polyolefins (PE, PP)	Functional filler; improves stiffness, dimensional stability, and cost efficiency
PVC Processing	Extender filler; enhances rigidity, surface finish, and processing stability
Engineering Plastics	Mineral filler for dimensional control and improved surface properties
Masterbatch & Compounds	Cost-effective filler; supports uniform dispersion and controlled loading
Rubber Processing	Inert filler; improves processing consistency and surface finish
Powder Processing & Dry Blends	Free-flowing mineral filler; improves handling, reduces caking, and ensures consistent feeding
Functional Fillers & Mineral Systems	Extender filler; balances density, cost, and mechanical properties
Additive One-Pack Systems	Used in dry additive blends; improves homogeneity and dosing consistency
Coatings (Powder Systems)	Extender filler; contributes to opacity and surface smoothness
Polymer-Paper / Composite Systems	Improves opacity, bulk, and surface characteristics in composite structures

US FDA 21 CFR LISTING

CFR Section	Title / Description
21 CFR 184.1230	Listed as Generally Recognized As Safe (GRAS) for specific food-related uses
21 CFR 176.170	Permitted for use in paper and paperboard in contact with food under specified conditions
21 CFR 175.300	Permitted for use in resinous and polymeric coatings under specified conditions

Compliance with applicable use levels, migration limits, and end-use conditions must be verified by the user.

DISCLAIMER

This product is intended for industrial use in polymer, coating, rubber, adhesive, and specialty chemical applications. It is not recommended for pharmaceutical or direct food use unless separately certified. Compliance with food-contact and regional regulatory approvals must be verified by the user. Values above are typical for general reference and not binding specifications unless explicitly confirmed in writing.

Month of Creation: July 2025

Month of Review: July 2027