

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalaremprikiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250
Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280
Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



TECHNICAL DATA SHEET

DICALCIUM PHOSPHATE ANHYDROUS (DCPA) MICRONIZED

PRODUCT CLASSIFICATION

Item	Description
Chemical Name	Dicalcium Phosphate (Anhydrous)
CAS No.	7757-93-9
HS Code	2835.25.00
EINECS No.	231-826-1
Molecular Formula	CaHPO ₄
Molecular Weight	~136.06 g/mol
Synonyms	Calcium Hydrogen Phosphate, Dibasic Calcium Phosphate

PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	White micronized powder	Visual
Odor	Odorless	Sensory
Purity (CaHPO ₄)	≥ 98.0%	Titration / ICP
Moisture	≤ 1.0%	Oven drying at 105 °C
pH (10% slurry)	6.5 – 8.0	pH meter
Bulk Density	0.70 – 1.10 g/cm ³	Tapped Density
Specific Gravity	~2.8 – 3.0	Pycnometer
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	≥ 90%	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

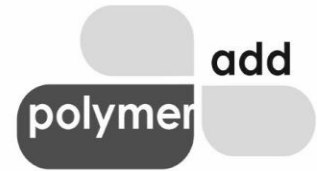
USES / APPLICATION (MICRONISED / SOLID-STATE RELEVANT)

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

US FDA 21 CFR LISTING

CFR Section	Title / Description
21 CFR 184.821	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 178.3297	Permitted as a colorant / additive in polymers 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