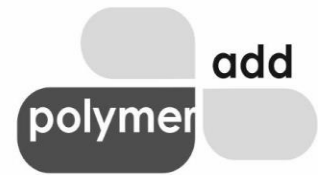


Polymer Add (Thailand) Co.,Ltd.

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

ANHYDROUS SODIUM SULFATE (STEARIC ACID COATED) MICRONISED

PRODUCT CLASSIFICATION

Item	Description
Chemical Name	Sodium Sulfate (Anhydrous, Stearic Acid Coated)
CAS No.	7757-82-6
HS Code	2833.11.00
EINECS No.	231-820-9
Molecular Formula	Na ₂ SO ₄
Molecular Weight	~142.04 g/mol
Synonyms	Sodium Sulfate Anhydrous, Surface-Treated Sodium Sulfate

PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	White micronized powder	Visual
Odor	Odorless	Sensory
Purity	≥ 99.0%	Gravimetric / ICP
Moisture	≤ 1.5%	Oven drying at 105 °C
pH (10% solution)	6.0 – 8.0	pH meter
Melting Point	~884 °C	Literature
Bulk Density	0.80 – 1.10 g/cm ³	Tapped Density
Coating Content (Stearic Acid)	0.5 – 2.0%	Extraction / Titration
Particle Size (D50)	3 – 6 µm	Laser Diffraction
Particle Size (D90)	< 20 µm	Laser Diffraction

➤ 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)

Industry	Commercial Application / Uses
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Polyolefins (PP, PE)	Functional filler; improves stiffness, dimensional stability, and cost efficiency in film, sheet, and molding applications
Masterbatch & Compounds	High-loading filler for cost optimization; enables uniform dispersion due to controlled micronised PSD
Polymer–Paper Composites	Used in outer layers and barrier systems; improves opacity, bulk, and surface finish
Film & Sheet Applications	Enhances clarity control (depending on PSD), reduces shrinkage, and improves processing consistency
Powder Processing & Dry Blends	Stearic acid coating improves flowability, reduces agglomeration, and enhances feeding behavior
Functional Fillers & Mineral Systems	Surface-treated filler improves compatibility with polymer matrices and dispersion performance
Processing Aid (Indirect Role)	Reduces friction during compounding due to surface coating; improves melt flow behavior
Additive One-Pack Systems	Used in pre-blended micronised systems; ensures homogeneity and stable dosing
Coatings (Powder Systems)	Acts as extender and flow modifier in solid coating systems
Rubber & Elastomers	Filler for cost reduction and improved processing behavior

US FDA 21 CFR LISTING

CFR Section	Title / Description
Not specifically listed	Sodium Sulfate is not broadly listed for polymer additive use under FDA CFR. Compliance for food-contact applications must be evaluated based on specific end-use conditions.

DISCLAIMER

This product is intended for industrial use in polymer, coating, or 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