

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, 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 SS-7757

PRODUCT CLASSIFICATION

Chemical Name	SODIUM SULFATE (ANHYDROUS, MICRONIZED)
Grade Name	SS-7757
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	Disodium sulfate, Thenardite, Sulfuric acid disodium salt

PHYSICAL & CHEMICAL PROPERTIES

PROPERTY	TYPICAL VALUE / DESCRIPTION	TEST METHOD
Appearance	White crystalline powder	Visual
Odor	Odorless	Sensory
pH (5% solution)	6.5 – 8.0	pH Meter
Moisture Content	≤ 0.5%	Oven drying at 105 °C
Bulk Density	0.70 – 1.10 g/cm ³	Tapped Density
Melting Point	~884 °C (decomposes)	Literature
Solubility in Water	Freely soluble	Visual Observation
Sodium Content (Na)	≥ 32.0%	Flame Photometry
Sulfate Content (SO ₄ ²⁻)	≥ 45.0%	Ion Chromatography
Particle Size (D50)	Typically, 6 – 10 µm	Laser Diffraction
Particle Size (D99)	Typically, < 25 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 FOR PLASTICS)

Element	Typical Limit	Test Method
Lead (Pb)	≤ 5 ppm	ICP, AAS, XRF
Cadmium (Cd)	≤ 1 ppm	ICP, AAS
Mercury (Hg)	≤ 1 ppm	ICP, CV-AAS
Arsenic (As)	≤ 1 ppm	ICP, AAS

USES / APPLICATION

Industry	Commercial Application / Uses (Micronized Grade)
Plastics / Polymers	Functional filler in PP, PE, EVA, PS, and PVC masterbatches
Adhesives	Rheology and flow control in hot-melt and solvent adhesives

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Inks & Pigments	Carrier and dispersing agent in ink formulations
Coatings	Extender in powder coatings and anticorrosive paints
Detergents	Processing aid and filler in detergent powders and tablets

US FDA 21 CFR LISTING

CFR Section	Title / Description
182.8991	Sodium sulfate – Generally Recognized as Safe (GRAS)
176.170	Components of paper and paperboard in contact with aqueous and fatty foods
178.3297	Colorants for polymers – as adjuvant or carrier for color additives

COLOUR IMPACTING IMPURITIES

Element	Typical Max Limit (ppm)	Test Method
Iron (Fe)	≤ 100 ppm	ICP, AAS, XRF
Manganese (Mn)	≤ 50 ppm	ICP, AAS, XRF
Copper (Cu)	≤ 30 ppm	ICP, AAS, XRF
Nickel (Ni)	≤ 20 ppm	ICP, AAS, XRF
Chromium (Cr)	≤ 10 ppm	ICP, AAS, XRF

PRODUCT PERFORMANCE IMPACTING IMPURITIES

Ion / Element	Typical Max Limit (ppm)	Test Method
Calcium (Ca)	≤ 200 ppm	ICP, AAS, XRF
Magnesium (Mg)	≤ 150 ppm	ICP, AAS, XRF
Potassium (K)	≤ 100 ppm	ICP, AAS, XRF
Chloride (Cl ⁻)	≤ 100 ppm	Ion Chromatography
Carbonates (CO ₃ ²⁻)	≤ 50 ppm	Titrimetric

Product Disclaimer:

This product is intended for industrial applications. Values listed are typical and not specifications unless explicitly agreed upon in writing. Product quality and suitability should be verified under actual conditions of use. No liability is accepted for misuse or non-conforming applications. Not intended for use in medical devices or products intended for prolonged contact with internal human tissue or fluids.

Month of Creation: July 2025

Month of Review: July 2027