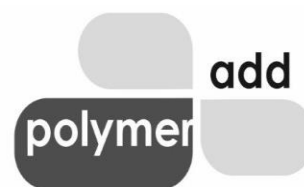


Polymer Add (Thailand) Co.,Ltd.

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



BS-144

TECHNICAL DATA SHEET

Chemical Name	BARIUM SULPHATE / BARIUM SULFATE
Grade Name	BS-144
CAS No.	7727-43-7
HS Code	28332700
EINECS No.	231-784-4
Molecular Formula	BaSO ₄
Molecular Weight	233.40 g/mol
Synonyms	BARYTE (ORE) / BLANC FIXE / BARIUM SULFATE

TEST	SPECIFICATION	METHOD
Appearance	White Powder	Visual
Purity by Titration (on dry basis) %	Min 98	Titration
Melting Range (Deg C)	>1580	Thermogravimetry
Volatiles %	Max 0.3	Thermogravimetry
Water Solubility %	Max 0.3	Visual %

Heavy Metals (EU Regulation 10/2011 (content limits in additives) Plastics (Food-Grade / Repeated Use)

Lead (Pb)	≤ 10 ppm	ICP,AAS,XRF,UV-Vis
Mercury (Hg)	≤ 0.1–1 ppm	
Cadmium (Cd)	≤ 1 ppm	
Arsenic (As)	≤ 1–3 ppm	
Chromium (VI)	Not allowed	
Chromium (III)	≤ 10 ppm	

Colour impacting impurities

Iron (Fe)	<20 ppm premium, ≤50 ppm general grade	ICP,AAS,XRF,UV-Vis
Manganese (Mn)	<10 ppm	
Chromium (Cr)	<10 ppm	
Copper (Cu)	<5 ppm	
Nickel (Ni)	<5 ppm	
Cobalt (Co)	<1 ppm	
Vanadium (V)	<5 ppm	

Product performance impacting impurities

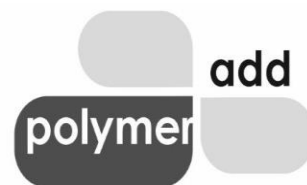
Chloride (Cl ⁻)	<0.01% (100 ppm)	ICP,AAS,XRF,UV-Vis
Sodium (Na)	<100 ppm	
Potassium (K)	<50 ppm	
Moisture (H ₂ O)	≤0.3% (preferably <0.1%)	
pH (slurry or 1% sol.)	7.0–9.5	

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Whiteness %	Min 97	CIE measurement (Paste in Mineral Oil)
Oil Absorption (g/100g)	10-30	Spatula Rub-Out
Particle Size D50 Microns	Max 5	Particle Size Analyzer (Wet Method)
Particle Size D99 Microns	Max 10 micron	Particle Size Analyzer (Wet Method)

Disclaimer:

This product is manufactured in accordance with general industrial quality standards. While typical batches comply with EU 10/2011 heavy metal limits for additives and are monitored for key colour-impacting impurities, these parameters are not routinely tested and are not included in standard Certificates of Analysis unless specifically requested at time of order. Customers requiring guaranteed compliance for food-contact or colour-critical applications should request analytical certification prior to dispatch.

USES / APPLICATION

Industry	Commercial Application / Uses / Uses
Oil & Gas	Used in drilling fluids and as a weighting agent for drilling muds
Paints & Coatings	Used as a white pigment and extender in paints and coatings
Pharmaceuticals	Used as a radiopaque agent in medical imaging (barium X-ray contrast)
Plastics & Polymers	Used as a filler in plastic formulations to improve stiffness and reduce cost
Rubber	Acts as a filler to improve physical properties and reduce processing cost

US FDA CFR LISTING

175.105	Substances For Use Only As Components Of Adhesives
176.170	Components Of Paper And Paperboard In Contact With Aqueous And Fatty Foods
177.2600	Rubber Articles Intended For Repeated Use
178.3297	Colourants For Polymers

Product Disclaimer :

This statement supersedes any Buyers documents. Seller makes no representation, Warranty, Express or Implied, Including of Merchantability of Fitness for a particular use, or purpose. No statement herein is to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence breach of warranty, strict liability, and tort or contract rising in connection with product(s). Buyers sole remedy and Sellers sole Liability for any claims shall be buyers purchase price. Data and results are based on controlled or lab work and must be confirmed by the buyer by testing for its indented conditions of use. This product is not tested for, and is therefore not recommended for, use for which prolonged contact with mucous membranes, abraded skin, or blood is intended, or for use for which implantation within human body is intended.

Month of Creation	May 2025
Month of Review	May 2027