

Application Data



Barium Sulfate - Precipitated

BSI's Assortment:

Standard Grade:

2278 - 3.0 micron

Fine Grade:

1525 - 1.0 micron

Ultra-Fine Grade:

1529 - 0.7 micron

Precipitated Barium Sulfate is also known under the Sachtleben trade name as "Blanc Fixe".

Precipitated barium sulfate (synthetic) is used as a pigment extender primarily for paints and printing inks because of its transparency and cleanliness, and in oils for its brightness.

It is opaque, and widely used in water paints. It is inert to acids, alkalis, light and heat and can be used in paints where these properties are important.

Available in three grades of average particle size and distribution, BSI's assortment is available for a variety of applications.

Precipitated Barium Sulfate is an inert extender resistant to acids and alkalis.

Paints and Coatings:

Top coats made with precipitated barium sulfate as an extender provide long term protection to aggressive environments. In

addition, high quality white and colored gloss paints can be produced with economy. It also enhances flow characteristics, surface hardness and color stability. For automotive primer surfaces, smooth and dense coatings with high loadings can be obtained.

Pigment Preparation:

It is an ideal extender for all colored systems which need chemical resistance, low abrasion and diffuse reflectance.

Adhesives:

For epoxy resin based adhesives, grouting and coating compounds, and in unsaturated polyester and polyurethane systems, precipitated barium sulfate adds

good rheological properties and resistance to aggressive environments.

Plastics:

It is used as a filler in both thermoplastics and thermosets because of its low abrasion, filling power rheological properties and refractive index. It also increases hardness, strength and abrasion resistance in many plastics.

Elastomers / Sealing Compounds:

For these, it displays good rheological characteristics, low abrasion and resistance to chemicals and aging.

Printing Inks:

Low binder requirements and grit content, minimal abrasion, high brightness, excellent dispensability and color neutrality make it highly suitable for high gloss printing inks.

Powder Coatings:

It is compatible with all types of colored pigments and will offer high filling capacity and brightness, high gloss and good flow characteristics.

Basic Properties:

All three grades contain 99.0% BaSO₄, a pH of 9.0, a Mohs Hardness of 3, a refractive index of 1.64 and very good exterior durability properties.

Product Number	Oil Absorption	Dispersibility	Gloss
2278	13	Good	Satisfactory
1525	15	Satisfactory	Good
1529	13	Superb	Very Good

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