



PT. BEHRINDOTAMA BUANA

Supplier of Industrial & Specialty Chemicals

Komplek Rukan Puri Mutiara Blok A/30

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Technical Data Sheet

What is our products

Ultramarine Blue (Sulphuric Sodium Aluminium Silicate)

PB 29, C.I. 77007

Formula: $\text{Na}_6\text{Al}_4\text{Si}_6\text{S}_4\text{O}_{20}$

Molecular weight: 862.60578

CAS No. 101357-30-6

Inorganic pigment, blue powder, good resistance to Alkali, heat, weather, insoluble in water.
used for plastic & rubber, ink, coating, paints, building materials, cosmetics, etc.

Quality Control

particle size	1.8um
sulfur content	0.05%
CIELAB report	
Value a*	<0.3
Value b*	<0.3
Delta E*	<0.7
Tinting Strength	100±3
Oil absorption	30-40
Moisture content	<0.5%

*** all these items will be checked in the process of manufacturing and before shipment.

Physical Properties

Appearance	Blue powder
Purity %	≥ 99.5
Heat Resistance (°C)	300-350
Volatile content:	0.1% max
Specific Gravity	2.35gr/cm ³
Oil Absorption	30-40
Moisture Content	0.5% max
Residue(325meshes)	0.1% max
Sulphur Content	0.05% max
Water Soluble Salts	0.2% max
Absolute Tinting Strength	100%±3%
Tinting Shade	Compare with standard sample
Average Particle Size (um)	1.8-2.5

Heavy Metal Inspection

EN71 Part 3:1994 (including amendment A1:2000/AC:2002) - Migration of Certain Elements

Test Items	Unit	Test Method (Reference)	Result	MDL	Limit
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Soluble Lead (Pb)	mg/kg	EN71 Part 3:1994+A1:2000/AC:2002, ICP-OES	25	5	90
Soluble Antimony (Sb)	mg/kg	EN71 Part 3:1994+A1:2000/AC:2002, ICP-OES	N.D.	2	60
Soluble Arsenic (As)	mg/kg	EN71 Part 3:1994+A1:2000/AC:2002, ICP-OES	N.D.	2	25
Soluble Barium (Ba)	mg/kg	EN71 Part 3:1994+A1:2000/AC:2002, ICP-OES	29	5	1000
Soluble Cadmium (Cd)	mg/kg	EN71 Part 3:1994+A1:2000/AC:2002, ICP-OES	N.D.	5	75
Soluble Chromium (Cr)	mg/kg	EN71 Part 3:1994+A1:2000/AC:2002, ICP-OES	N.D.	5	60
Soluble Mercury (Hg)	mg/kg	EN71 Part 3:1994+A1:2000/AC:2002, ICP-OES	N.D.	2	60
Soluble Selenium (Se)	mg/kg	EN71 Part 3:1994+A1:2000/AC:2002, ICP-OES	N.D.	5	500

Packaging & Storage Conditions

Packing: 25kgs per kraft paper bag.

Storage conditions: cool and dry place, sheltering from direct sunshine.

Particle size distribution

