

Sulphur Dyes

Powder or granular textile dyes

Product Description

Sulphur dyes used for dyeing cellulose fibers with excellent wash fastness.

Certificate of Analysis

HSN Code: 3204.19

CAS Number: Varies by dye type

Classification: Non-Hazardous (Irritant / Com

Parameter	Specification	Test Method
Moisture Content (at 105 °C)	"d 5 . 0 %	Gravimetric
Insoluble Matter	"d 1 . 0 %	Filtration / Gravimetric
pH (1% aqueous solution, 25 °C)	6.0 – 8.0	pH meter
Sodium Sulfide (Na ₂ S) Content (in paste grades)	"d 2 . 0 %	Titrimetric
Residue on Ignition	"d 1 . 0 %	Gravimetric
Iron (as Fe)	"d 0 . 0 1 %	AAS / Colorimetric
Heavy Metals (as Pb)	"d 0 . 0 0 1 %	AAS
Bulk Density	0.5 – 0.8 g/cm ³	Tapped density
Particle Size	100% passing through 100 mesh	Sieve analysis
Shade / Color Strength	As per standard sample (±2%)	Visual / Spectrophotometric
Reducibility (Na ₂ S ₂ O ₄ reduction test)	Complete within specified time	Laboratory reduction test
Color Value / Absorbance (» max	Within ±3% of standard	UV–Vis Spectrophotometer

Physical Properties

Appearance: Dark-colored powder or granules (black, brown, blue, or yellow)

Odor: Characteristic, faint

Molecular Formula: Varies by dye type

Molecular Weight: Varies by dye type

Solubility: Insoluble in water; soluble in alkaline reducing solutions

Density: 0.5 – 0.8 g/cm³

Packing: 25 kg HDPE bags with inner liner, 50 kg fiber drums, 500 – 1000 kg jumbo bags

Storage: Store in cool, dry, well-ventilated place away from heat, sparks, and oxidizing agents

Safety & Handling

PPE: Gloves, goggles, dust mask

Hazards:

- Fine powder may form combustible dust-air mixtures
- May cause irritation to eyes and skin