

R838 rutile (titanium dioxide)

R838 rutile is a generic titanium dioxide prepared by the sulfuric acid method that is a non-toxic, chemically stable white powder treated with a silicon-aluminum coating and special organic solvents. After air-drying late in the production process, R838 has excellent dispersibility and a strong whiteness, brightness, glossiness, and good hiding power, achromatic power, as well as excellent weather-resistance and non-chalkiness.

Characteristics:

R838 is a rutile titanium dioxide pigment treated with an inorganic silicon-aluminum coating and organic solvents; which has an excellent optical brightness, whiteness, glossiness, tint-reducing power, as well as weather-resistance and dispersibility.

Applications:

Water-based coatings, emulsion paint, powder coatings, printing ink, other areas

Packaging:

25 kg paper-plastic bag; large 500 kg or 1,000 kg bag

Technical indicators

Properties	Indicator
TiO ₂ content (percentage ≥)	92
Color (based on standard sample)	No less than
Achromatic power (based on standard sample, percentage ≥)	105
Volatiles, 24h, 105°C (percentage ≤)	1.0
pH value in water suspension	6.0-8.5
Oil absorption (g/100g ≤)	21
45 μm sieve residue (percentage ≤)	0.07
Average particle diameter (μm)	0.20-0.26
Crystal conversion rate (percent ≥)	98.5

Uses: R838 titanium dioxide is generic titanium dioxide and is widely used in superior indoor coatings, solid content paints, powder coatings, on road signs, in marine paints, and inks, as well as plastics (PVC, polyethylene, polystyrene, polyurethane), rubber, paper, and leather.