

BULK CONCENTRATES & PRO EQUIPMENT · 5% ANATASE NANO-DISPERSION
MOTHER LIQUOR

5X Visible-Light Nano-TiO₂ Sol
Concentrate

5X concentrated (5.0% wt, 5–10nm) visible-light anatase nano-TiO₂ aqueous sol
for local 1:4 dilution, paint modification, and filter coating.

PATHWAY 5X Nano-TiO₂ Sol (5–10nm, 5% wt) → 1:4 Dilution



TECHNICAL SPECIFICATIONS & OPERATING PARAMETERS

Factory QC Standard · Verified Batch Parameters

TiO ₂ Solid Concentration	5.0% ± 0.2% wt/wt (50,000 ppm doped anatase nano-TiO ₂)
Primary Particle Size & Phase	5 – 10 nm (TEM/XRD verified >99% Anatase crystal phase)
Appearance & pH	Translucent opalescent liquid with sky-blue Tyndall effect; pH 6.8 – 7.5
Dilution Ratio & Yield	1 : 4 with deionized water (<20 µS/cm) → yields 1.0% RTU spray
Export Packaging	1L lab bottle, 20L / 25L HDPE drums, 200L drums
Product Grade	Industrial Bottling & Export Mother-Liquor Concentrate Grade
Specific Gravity / Density	1.06 – 1.12 g/cm ³ (20 °C)
Flash Point & VOC Content	Non-flammable (>100 °C aqueous concentrate) · VOC: < 10 g/L (Zero hazardous organic solvents)
Application Method	Dilute 1 part SZJ-BULK-122 with 4 parts ultra-pure deionized water (<15 ppm TDS)
Transport & Customs HS Code	Non-Dangerous Goods (Non-DG for Sea/Air) · HS 3824.99.9990
Quality & Test Compliance	ISO 16000–9 / ISO 22197–1 Post-Dilution Efficacy Verification (≥ 95.5% HCHO/TVOC abatement at standard 1:9 or 1:4 dilution)