



# NEWAY SINOPHC TECH. LIMITED

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## Technical Data Sheet (TDS)

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### 1. Product Overview

- **Product Name:** Hair Bleaching Powder (Blue)
- **English Name:** Professional Blue Hair Lightening Powder
- **CAS Number:** N/A (Composite cosmetic grade mixture)
- **Main Components:** Sodium Persulfate, Potassium Persulfate, Cosmetic Grade Blue Toner, Silica (Anti-caking), Cosmetic Grade Stabilizer, pH Regulator
- **Product Trait:** Bright blue free-flowing fine powder, no caking; cosmetic grade high-efficiency hair bleaching raw material; mixed with 3%-12% cosmetic grade hydrogen peroxide to form bleaching paste, which lightens hair color through oxidative decomposition of hair melanin; blue toner neutralizes yellow undertones after bleaching, giving hair a cool ash tone; stable under recommended storage conditions, no pungent odor, low dust generation.
- **Core Properties:** High bleaching efficiency (lightens hair by 6-8 levels), cool blue toning effect, free-flowing anti-caking formula, milder than ordinary bleaching powder (cosmetic grade ingredients), stable bleaching effect (no uneven lightening), compatible with all cosmetic grade hydrogen peroxide (3%-12%); meets international cosmetic safety standards for hair bleaching products.
- **Main Application:** Professional hair salons - hair bleaching/lightening, hair color correction, highlight/lowlight making, ash tone hair dye pre-bleaching; personal use - home hair lightening (under professional guidance); suitable for all hair types (black hair, dyed hair, natural hair), not suitable for damaged hair (level 3+ damage).

### 2. Technical Specifications (Cosmetic Grade, Complies with China/EU/US Cosmetic Safety Standards)

Item	Specification
Appearance	Bright blue free-flowing fine powder, no caking
Total Persulfate Content ( $\text{Na}_2\text{S}_2\text{O}_8 + \text{K}_2\text{S}_2\text{O}_8$ )	$\geq 60.0\%$
Moisture Content	$\leq 0.5\%$
pH Value (10% aq., 25°C)	7.0-9.0
Bleaching Efficiency (1:2 with 6% $\text{H}_2\text{O}_2$ , 30min)	$\geq 80\%$ (hair lightening level)
Blue Toner Content	1.0-3.0%
Bulk Density (25°C)	0.85-0.95 g/cm <sup>3</sup>
Sieve Pass Rate (100 mesh)	$\geq 99.0\%$
Heavy Metals (Pb)	$\leq 5$ ppm
Heavy Metals (As)	$\leq 2$ ppm
Heavy Metals (Hg)	$\leq 1$ ppm
Cadmium (Cd)	$\leq 5$ ppm
Total Bacterial Count	$\leq 1000$ CFU/g
E. coli/Staphylococcus aureus	Negative
Storage Stability (25°C, 6 months)	Bleaching efficiency retention $\geq 95\%$
Toning Effect	Neutralizes yellow undertones, gives cool ash tone

### 3. Product Advantages

1. **High-Efficiency Bleaching & Toning:** Dual effect of bleaching and toning; lightens hair by 6-8 levels in 30 minutes (1:2 with 6%  $\text{H}_2\text{O}_2$ ); blue toner neutralizes yellow/orange undertones, avoiding brassy hair after bleaching.
2. **Anti-Caking Free-Flowing Formula:** Added silica anti-caking agent, free-flowing fine powder, easy to mix with hydrogen peroxide; no clumping, uniform bleaching paste, no uneven lightening on hair.

3. **Cosmetic Grade Mild Formula:** Uses food/cosmetic grade persulfates, lower irritation than industrial grade; no pungent odor, low dust generation, reduces respiratory irritation during operation.

#### 4. Application Fields & Matching Guide

##### 4.1 Main Application Fields

- Professional Hair Salons: Full head hair lightening, ash tone hair dye pre-bleaching, color correction (for dark dyed hair), highlight/lowlight making, balayage.
- Personal Use: Home hair bleaching (must follow professional guidance), small area hair lightening (e.g., bangs).
- Hair Cosmetic Manufacturers: Raw material for hair bleaching kits (mixed with hydrogen peroxide and applicator).

##### 4.2 Hydrogen Peroxide Matching Guide (Key for Bleaching Level & Hair Damage)

H <sub>2</sub> O <sub>2</sub> Concentration	Recommended Bleaching Level	Suitable Hair Type	Processing Time
3% (10 Vol)	1-2 levels	Dyed light hair/ash tone touch-up	15-20 min
6% (20 Vol)	3-4 levels	Natural light brown hair/healthy dyed hair	20-30 min
9% (30 Vol)	5-6 levels	Natural black/brown hair/medium damaged hair	30-40 min
12% (40 Vol)	7-8 levels	Thick natural black hair ( <b>only for healthy hair</b> )	40-50 min
<b>Note:</b> Do not use 12% H <sub>2</sub> O <sub>2</sub> for damaged hair; processing time can be adjusted according to hair color and texture (test strand first).			

#### 5. Usage & Operation Guidelines

##### 5.1 Basic Mixing Ratio

- Standard Ratio:** Hair Bleaching Powder : Cosmetic Grade Hydrogen Peroxide = **1:2 (w/v)** (e.g., 50g powder + 100mL peroxide)
- Thick Paste Ratio (for highlights):** 1:1.5 (w/v) (thicker paste, no dripping on hair)
- Thin Paste Ratio (for full head):** 1:2.5 (w/v) (thinner paste, easy to apply on full head)

#### 6. Packaging & Storage

##### 6.1 Packaging Specifications (Cosmetic Grade, Dust-Proof & Moisture-Proof)

- 100 g HDPE plastic jar (personal use, with inner seal + screw cap)
- 500 g HDPE plastic jar (salon small batch use, dust-proof cap + spoon)
- 1 kg HDPE plastic jar (salon regular use, large mouth + inner seal)
- 5 kg HDPE plastic drum (salon bulk use, inner plastic lining + dust-proof cap)
- 25 kg HDPE plastic drum (manufacturer raw material use, sealed + palletized)
- Custom Packaging:** Available for hair bleaching kits (powder + peroxide + brush + bowl) upon request (all dust-proof & moisture-proof).

#### 7. Safety & Protection

- The product contains persulfates, causes **serious eye damage** and skin irritation; **all operations must be conducted by trained hair cosmetic professionals** with full specified PPE (N95 dust respirator, safety goggles + full face shield, nitrile rubber gloves ≥0.30mm, chemical-resistant apron).
- Operate in a well-ventilated salon/area; avoid dust inhalation; do not eat/drink/smoke during operation; wash hands/face thoroughly with soap and water after operation.