

Technical Data Sheet (TDS) - Hair Bleaching Powder (White)

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Product Name

Hair Bleaching Powder (White) 头发漂白粉 (白色) **CAS Number:** N/A (Composite mixture) **Formula:** Sodium Persulfate, Potassium Persulfate, Ammonium Persulfate, Silica, Plant Conditioning Extracts, Thickener **Form:** White free-flowing powder (Cosmetic Grade) **Odor:** Faint mild chemical scent, no pungent odor

1. Product Overview

Hair Bleaching Powder (White) is a high-performance professional cosmetic raw material for hair lightening, formulated with a composite persulfate active system and added with silica anti-caking agent and natural plant conditioning ingredients. It features high active oxygen content, fast and uniform bleaching, mild formula, and reduced hair damage during the bleaching process. The white free-flowing powder is easy to mix with hydrogen peroxide developer, has no caking, and the bleaching effect is stable and controllable. It can lift hair color by 5-7 shades, suitable for all hair types (black, brown, dyed hair), and is the core raw material for professional hair salons for hair bleaching, highlighting, and color correction. The product complies with cosmetic safety and quality standards, with low heavy metal content and no harmful microbial residues, ensuring safe use.

2. Technical Specifications (Complies with Cosmetic Industry Standard)

Item	Specification
Appearance	White uniform powder, free-flowing, no caking/agglomeration
Particle Size	95% pass 100 mesh sieve
Active Oxygen Content (Iodometric Titration)	≥ 6.0%
Moisture Content	≤ 0.5%
pH Value (10% aq. solution, 25°C)	8.5 ~ 10.5
Whitening Efficacy (1:2 with 6% H ₂ O ₂ , 30min)	≥ 5 shades lift
Heavy Metals (Pb)	≤ 10 ppm
Heavy Metals (As)	≤ 2 ppm
Heavy Metals (Hg)	≤ 1 ppm
Total Aerobic Count	≤ 1000 CFU/g
E. coli/Staphylococcus aureus	Negative
Stability (25°C, 3 months)	No caking, active oxygen loss ≤ 5%
Mixability	Easy to mix with 3/6/9% H ₂ O ₂ , no lumps
Corrosiveness	Non-corrosive to hair salon tools (plastic/metal)

3. Product Advantages

- High-Efficiency Bleaching:** Composite persulfate formula, active oxygen content ≥6.8%, lifts hair color by up to 7 shades, fast bleaching (20-40min) with uniform effect.
- Mild & Hair-Care:** Added natural plant conditioning extracts and amino acid moisturizers, reduces hair dryness and brittleness during bleaching, maintains hair softness.
- Stable Performance:** White free-flowing powder, no caking during storage, easy to mix with hydrogen peroxide developer, no lumps, controllable bleaching process.
- Wide Adaptability:** Matches with 3%/6%/9% hydrogen peroxide developer, suitable for all hair types (natural hair, dyed hair, synthetic hair), meets different bleaching needs.
- Safe & Compliant:** Low heavy metal content, no harmful microorganisms, complies with national and international cosmetic safety standards, no pungent odor.

6. **Easy to Use:** Light weight, easy to store and carry, suitable for professional hair salons and personal home use (under guidance).

4. Application Fields

- **Professional Hair Salons:** Main material for hair bleaching, full-head lightening, hair highlighting, balayage, and hair color correction.
- **Personal Home Care:** Hair bleaching and lightening for personal use (operate according to the instruction manual).
- **Hair Beauty Training Institutions:** Teaching material for hair bleaching and coloring technology training.
- **Cosmetic Processing:** Raw material for customized hair bleaching products (blended with other hair care ingredients).

5. Usage Methods

Mixing Ratio & Preparation

- **Light bleaching (2-3 shades lift):** Mix powder with **3% hydrogen peroxide developer** at 1:2 (w/v), stir evenly to form a creamy paste (no lumps).
- **Medium bleaching (4-5 shades lift):** Mix powder with **6% hydrogen peroxide developer** at 1:2 (w/v), stir to a smooth paste.
- **Deep bleaching (6-7 shades lift):** Mix powder with **9% hydrogen peroxide developer** at 1:2 (w/v), stir thoroughly (for dark/black hair only).
- **Key Preparation Tip:** Stir in one direction for 1-2 minutes, avoid excessive stirring to prevent active oxygen loss.

Application Steps

1. Clean hair with neutral shampoo, dry to 80% wet (no conditioner, avoid affecting bleaching effect).
2. Apply the mixed bleaching paste evenly on hair with a dye brush, avoid contact with scalp (leave 0.5cm from scalp for sensitive skin).
3. Cover hair with plastic wrap, let stand for **20-40min** (check hair color every 5min, stop immediately when reaching the desired shade).
4. Rinse hair with plenty of warm water until the water is clear, then use a moisturizing hair mask for 5-10min to repair hair.

6. Packaging & Storage

Packaging Specifications (Sealed, Moisture-Proof)

- 100 g HDPE sealed plastic jar (personal home use, small sample)
- 500 g HDPE moisture-proof plastic jar (salon small-batch use)
- 1 kg HDPE sealed plastic bucket (professional hair salon use)
- 5 kg/10 kg HDPE moisture-proof plastic bucket (salon bulk use)
- Custom packaging (200g/300g) available for customer requirements.

Storage Conditions

- **Core Requirement:** Store in a **cool, dry, well-ventilated warehouse** at 5~25°C; avoid direct sunlight, high temperature, and moisture (relative humidity ≤60%).

7. Safety & Protection

- The product is a mild cosmetic bleaching powder, but contact with mucous membranes may cause mild irritation; wear protective equipment during operation.
- **Recommended PPE:** Disposable nitrile gloves, chemical safety goggles, disposable hair cap, protective apron (for professional salon use).
- **Accident Treatment:**
 - Skin Contact: Rinse the affected area with plenty of running water for 5~10 minutes; if irritation occurs, apply aloe vera gel and consult a dermatologist if necessary.
 - Eye Contact: Rinse eyes with plenty of clean running water for 10~15 minutes (pry open eyelids); consult an ophthalmologist immediately if redness and pain persist.