



HUIZHOU ZHONGZHIXING COLOR TECHNOLOGY CO.LTD

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Technical Specification for Food-Grade Water-Based Inks

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Food-grade inks are used for printing on food packaging or containers and labels that come into **direct contact with food products**. These inks must comply with specific safety standards to ensure they pose no health risks. Below are the key specifications and applications for food-grade inks:

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Applications

1. Food Packaging

- **Paper Boxes:** Milk cartons, juice boxes, etc.
- **Paper Bags:** Bread bags, cake trays, pastry packaging, etc.
- **Plastic Bags:** Candy wrappers, snack packaging, etc.
- **Metal Cans:** Biscuit tins, tea canisters, etc.
- **Glass Bottles:** Sauce bottles, condiment containers, etc.

2. Food Service Products

- **Paper Cups:** Cold/hot beverage cups.
- **Disposable Tableware:** Paper plates, bowls, etc.
- **Napkins/Tissues:** Table napkins, wet wipes, etc.

3. Labels

- **Food Labels:** Nutritional information, ingredient lists.
- **Anti-Counterfeit Labels:** Brand protection tags.

4. Direct Food-Contact Containers

- **Plastic Containers:** Food storage boxes, takeout containers.
- **Paper Containers:** Cake boxes, dessert packaging, etc.

5. Pharmaceutical Packaging

- **Medicine Boxes:** Drug packaging.
- **Medicine Bottles:** Liquid medication containers.

6. Personal Care Product Packaging

- **Shampoo/Body Wash Bottles:** Labels on bottles.

7. Cosmetic Packaging

- **Lipstick Tubes:** Printing on outer casings.

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- **Cosmetic Bottles:** Labels on skincare or makeup products.

Technical Features

1. Safety

- Complies with food safety regulations (e.g., FDA, EU standards).
- Free from heavy metals and harmful substances; **non-toxic and harmless.**

2. Durability

- Excellent abrasion and scratch resistance to maintain print clarity.
- Resistant to water, oils, and chemicals.

3. Environmental Sustainability

- Low VOCs emissions; meets eco-friendly requirements.
- Recyclable or biodegradable formulations.

4. Printing Compatibility

- Suitable for flexographic, offset, and screen printing processes.

5. Color Stability

- Vibrant colors with long-term stability under varying conditions.

Precautions

- Verify compliance with food safety standards before use.
- Follow proper storage and handling guidelines to prevent contamination.
- Regularly inspect printing equipment to ensure ink flow consistency and print quality.

Standards & Certifications

- **International Standards:** ISO 9001 (Quality Management), ISO

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14001 (Environmental Management).

- **Food Safety Regulations:** FDA 21 CFR, EU 10/2011, China GB 9685.
- **Industry Standards:** LFGB (Germany), GB (China).

Technical Parameters

Parameter	Specification	Notes
Viscosity	18"±8 (Rigosh #4 cup)	Adjust based on ink concentration; refer to detailed test reports.
pH Value	7.5–9.0 (@25°C)	Ensure stability during application.
Gloss	40°–60° (black/white cardstock)	Measured at standard testing conditions.
Dilution	Compatible with reducers or pH adjusters	Use same-series diluents for optimal performance.
Cleaning	High- strength cleaners for rollers, plates	Avoid solvents that degrade resin plates.

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Parameter	Specification	Notes
Storage	Store sealed in cool, dry conditions (no refrigeration)	Shelf life: 12 months from production date.

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Usage Instructions

1. Stir thoroughly before use to ensure uniformity.
2. Adjust viscosity and pH as needed for specific substrates or printing conditions.

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Disclaimer

This document serves as a general reference. Users must conduct their own testing to verify suitability for specific applications. Due to variations in operational conditions, [Company Name] cannot guarantee performance outcomes under all circumstances.

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