LIQUID CANDLE DYE

TECHNICAL DATA SHEET

MEET CRAFTS

PRODUCT IDENTIFICATION

Product Code	CLD-01
Product Name	Red Liquid Candle Dye
Product Type	Oil-Soluble Dye Concentrate
Application	Candle / Wax Melt / Wax-Based Products
Appearance	Clear to slightly colored liquid
Odor	Mild / Characteristic
Solubility	Fully soluble in wax systems

Liquid Candle Dye is a highly concentrated oil-soluble colorant system designed for uniform coloration of:

Suitable Wax Systems

- Paraffin wax
- Soy wax
- Coconut wax
- Beeswax
- Blended wax systems
- Gel wax (test required)

Designed For

- High color strength
- Clean dispersion
- No particle residue
- Drop-controlled dosing system

Custom-formulated colors can be developed according to your specific shade (Pantone Color) and physical property requirement. Color intensity may vary depending on the wax type; colors typically appear lighter in vegetable waxes such as soy wax and deeper in mineral waxes such as paraffin wax.

TECHNICAL SPECIFICATIONS

Solid Content	5% – 15% (depending on formulation)
Density	0.85 – 1.05 g/mL
Viscosity	Low viscosity liquid
Flash Point	> 90°C (typical 93–110°C)
Color Strength	High concentration dye system
Particle Content	0% (fully dissolved system)
Stability	24 months (sealed, room temp)
Storage Temp	10–30°C
UV Stability	Medium (UV stabilizer recommended)

Please shake well before use to ensure consistent color.

STANDARD DOSAGE SYSTEM

Light Shade	0.01% – 0.1%, ~1–2 drops / lb wax
Medium Shade	0.05% – 0.20%, ~3–6 drops / lb wax
Dark Shade	0.2% – 1%, ~6–10 drops / lb wax
Black / Deep Colors	up to 2%, controlled by batch testing

APPLICATION GUIDELINES

Processing Conditions

- Add temperature: 70–85°C
- Mixing time: 2–5 minutes
- Addition stage: after wax is fully melted
- Fragrance addition: before or after dye (test recommended)

Method

1. Melt wax completely
2. Add fragrance (optional)
3. Add liquid dye dropwise
4. Stir until fully uniform
5. Pour and cool

COMPATIBILITY

Paraffin	Excellent
Soy Wax	Good (may appear softer tone)
Coconut Wax	Good
Beeswax	Moderate
Gel Wax	Test required

PERFORMANCE CHARACTERISTICS

- High tinting strength
- Transparent coloration system
- No sediment or grain formation
- Easy drop dosing control
- Mixable between colors
- Batch reproducible color system
- Won’t alter the scent of your candle fragrance

STORAGE & HANDLING

- Store in sealed containers
- Avoid direct sunlight
- Keep at 10–30°C
- Do not freeze
- Shelf life: 24 months

SAFETY & COMPLIANCE

- Not classified as hazardous under GHS (typical formulation dependent)

- REACH compliant raw materials (if EU-grade)
- Designed for candle manufacturing only
- Not intended for skin contact or ingestion

QUALITY CONTROL PARAMETERS

Each batch must meet:

- Color strength deviation ≤ ±5%
- Density tolerance ±0.02 g/mL
- Full wax solubility test pass

PACKAGING OPTIONS

- 10 mL sample
- 30 mL retail
- 1 oz / 30 mL standard US size
- 4 oz / 118 mL B2B size
- 1 L / OEM bulk
- 5 L industrial drum

APPLICATION NOTE

This product is designed for:

- Candle manufacturers
- Wax melt brands
- DIY candle makers
- Private label OEM
- Etsy / Amazon sellers