



## Technical Data Sheet (TDS)

### Candle Wax

#### 1. Product Identification

**Product Name:** Candle Wax

**Product Type:** Refined Wax for Candle Manufacturing

**Recommended Use:** Production of container candles, pillar candles, tealights, votives, molded candles, and decorative wax products.

#### 2. Product Description

Candle Wax is a high-quality wax formulation designed for candle manufacturing applications. The wax provides excellent fragrance retention, smooth surface finish, stable burn characteristics, and reliable adhesion to containers and molds.

This product may be supplied in slab, pellet, pastille, or flake form depending on customer requirements.

#### 3. Typical Physical & Chemical Properties

Property	Typical Value	Test Method
Appearance	White / Off-white solid	Visual
Form	Slab / Pellet / Flake	Visual
Odor	Mild / Neutral	Sensory
Melting Point	52–68°C (125–154°F)	ASTM D87
Flash Point	>180°C (>356°F)	ASTM D92
Oil Content	<0.5%	ASTM D721
Penetration @ 25°C	10–20 dmm	ASTM D1321
Density @ 25°C	0.88–0.92 g/cm <sup>3</sup>	ASTM D4052
Viscosity @ 100°C	4–8 cSt	ASTM D445
Fragrance Load Capacity	6–12%	Internal Method
Color	≤1.0 Saybolt	ASTM D156

*Values shown are typical and should not be considered as product specifications.*



#### 4. Applications

This wax is suitable for:

- Container candles
- Pillar candles
- Tealight candles
- Votive candles
- Wax melts
- Decorative candles
- Scented candles
- Blended wax formulations

#### 5. Processing Guidelines

Recommended Melting Temperature

70–90°C (158–194°F)

Recommended Pouring Temperature

55–75°C (131–167°F)

Fragrance Addition Temperature

70–85°C (158–185°F)

Dye Addition

Compatible with oil-soluble candle dyes and pigments.

Cooling Recommendations

Allow candles to cool gradually at room temperature for best surface appearance and reduced frosting or sinkholes.



## 6. Performance Characteristics

- Smooth and consistent finish
- Excellent scent throw (hot and cold)
- Good glass adhesion for container candles
- Stable burn performance
- Reduced frosting and shrinkage
- Easy release from molds (where applicable)
- Good color compatibility

## 7. Storage & Handling

- Store in a cool, dry, and well-ventilated area.
- Keep away from direct sunlight and heat sources.
- Recommended storage temperature: below 35°C (95°F).
- Avoid contamination with dust, moisture, and foreign materials.
- Keep packaging tightly sealed when not in use.

### Shelf Life

24 months from production date when stored under recommended conditions.

## 8. Packaging

Available packaging options may include:

- 1 kg bags
- 5 kg cartons
- 20 kg cartons
- 25 kg bags
- Bulk packaging

Custom packaging available upon request.



## 9. Safety Information

- Molten wax may cause burns.
- Use suitable protective gloves and eye protection during handling.
- Avoid overheating above recommended temperatures.
- Keep away from open flames and ignition sources.
- Ensure adequate ventilation during melting and pouring operations.

Please refer to the Safety Data Sheet (SDS) for detailed safety information.

## 10. Regulatory Information

This product is manufactured in accordance with applicable industrial quality standards.

Typical compliance may include:

- REACH compliant
- RoHS compliant
- IFRA-compatible fragrance usage (when applicable)

Compliance certifications available upon request.

## 11. Quality Assurance

Each production batch undergoes quality control testing to ensure consistency in:

- Melting point
- Color
- Oil content
- Fragrance compatibility
- Burn performance
- Surface finish



## 12. Disclaimer

The information contained in this Technical Data Sheet is based on current knowledge and experience. Values listed are typical properties and should not be interpreted as guaranteed specifications. Users are responsible for determining suitability of the product for their intended application and manufacturing process.

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