Basekim
Chemical Production Co.Ltd

Technical Data Sheet (TDS)

Paraffin Wax (Fully Refined & Semi Refined Grades)

This Technical Data Sheet defines the typical physical and chemical properties of Basekim's industrial-grade Paraffin Wax. This product undergoes advanced catalytic hydrotreating and solvent de-oiling processes to ensure superior purity, high thermal stability, and low odor profiles across all available grades.

Product Applications

Paraffin wax functions as a highly adaptable raw material across multiple global sectors:

- **Candle Manufacturing:** Provides structure, excellent fragrance retention, and a clean, predictable burn profile for pillar and container candles.
- **Rubber & Elastomers:** Acts as a migratory anti-ozonant wax to shield tires and industrial rubber components from atmospheric cracking.
- **Packaging & Coatings:** Forms an effective, hydrophobic moisture barrier for corrugated boxes, food wraps, and industrial papers.
- **PVC Processing:** Serves as an external lubricant to lower friction during plastic extrusion, improving surface finish and machinery throughput.
- **Cosmetics & Pharmaceuticals:** Functions as a high-purity emollient base for therapeutic skin treatments, creams, and ointments.

Key Features & Benefits

- **Low Volatility:** Minimizes smoking and vapor emissions during high-temperature blending and processing.
- **Excellent Hydrophobicity:** Delivers exceptional water resistance for structural coatings and moisture-barrier applications.
- **Sharp Melting Point:** Transitions rapidly from solid to low-viscosity liquid state, streamlining manufacturing workflows.
- **Chemical Inertness:** Resists oxidation and displays excellent compatibility with polymers, resins, and synthetic lubricants.

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Technical Specifications & Typical Properties

The following table presents typical analysis values for our primary refinement grades. These values represent standard operational baselines and do not constitute a binding product warranty.

Property	Test Method	Fully Refined Grade	Semi Refined Grade
Melting Point	ASTM D87 / ISO 2207	58.0°C – 60.0°C	60.0°C – 62.0°C
Oil Content	ASTM D721	0.45% max	1.20% max
Saybolt Color	ASTM D156	+28 min	+22 min
Needle Penetration (at 25°C)	ASTM D1321	14 – 18 (0.1 mm)	16 – 22 (0.1 mm)
Kinematic Viscosity (at 100°C)	ASTM D445	3.8 – 4.4 mm^2/s	4.0 – 4.6 mm^2/s
Odor Rating	ASTM D1833	0 – 1	1 – 2
Flash Point (COC)	ASTM D92	> 220°C	> 210°C

Note: Custom melting point ranges (from 52°C up to 66°C) are available upon request to meet specific formulation demands.

Handling, Packaging & Storage Guidelines

Packaging Options

- **Solid Slabs:** 5 kg or 25 kg blocks packed inside durable woven polypropylene bags or heavy-duty cardboard boxes loaded on pallets.
- **Granules/Pellets:** 25 kg multi-wall paper or plastic bags engineered for rapid automatic dosing systems.
- **Liquid Bulk:** Dispatched via insulated, heated ISO tank containers or road tankers for immediate high-volume factory consumption.

Storage Conditions

Store the product in a dry, well-ventilated warehouse facility. Keep pallets away from direct sunlight, open flames, and localized heat sources. Maintain storage temperatures below 35°C to prevent slab fusion, block deformation, or minor oil migration within semi-refined grades.

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Shelf Life

When stored properly in its original, unopened packaging, the product retains its chemical stability and functional characteristics for at least 36 months from the date of manufacture.

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