



Technical Data Sheet (TDS): Microcrystalline Wax

General reference sheet · Grade-specific values must be confirmed

1. Product identification

Parameter	Details
Product name	Microcrystalline Wax
Chemical family	Refined petroleum wax
Physical form	Solid wax
Chemical composition	Predominantly saturated hydrocarbons
Available grades	Soft, medium, hard; low- and high-melting grades
Primary uses	Rubber, adhesives, coatings, packaging, and specialty formulations

2. Technical specifications

The following are reference values from published commercial grades, not guaranteed specifications for Securea's product.

Property	Typical reference range/value	Test method
Drop melting point	Approximately 74–92 °C	ASTM D127
Congeeing point	Approximately 62–86 °C, depending on grade	ASTM D938
Needle penetration at 25 °C	Approximately 8–75 dmm across selected grades	ASTM D1321
Oil content	Approximately 1–5% for selected grades	ASTM D721
Kinematic viscosity at 100 °C	Approximately 10–18 mm ² /s for selected grades	ASTM D445
Color	Grade-dependent	ASTM D1500 or ASTM D156
Water solubility	Insoluble	Product-dependent test requirements
Appearance	Solid; color varies by grade	Visual



3. Applications

- Rubber compounding and ozone-protective wax formulations.
- Hot-melt adhesives and sealants.
- Moisture-resistant coatings and packaging.
- Candle and specialty wax blends.
- Selected cosmetic or other regulated applications, subject to grade approval.

4. Handling and storage

- Store in a cool, dry, well-ventilated area.
- Protect the material from contamination, moisture, and excessive heat.
- Follow the manufacturer's recommendations for heating and handling molten wax.
- Consult the product-specific SDS for protective equipment, fire precautions, and emergency procedures.

5. Packaging and shelf life

Parameter	Details
Packaging	Confirm available slab, block, pellet, or carton formats with the supplier
Net weight	Supplier-dependent
Shelf life	Confirm using the manufacturer's current documentation
Transportation	Follow the applicable product SDS and shipping requirements

6. Quality documentation

Request the following documents from the manufacturer or supplier:

- Technical Data Sheet (TDS)
- Safety Data Sheet (SDS/MSDS)
- Certificate of Analysis (COA) for the supplied batch
- Applicable food-contact, cosmetic, or other regulatory declarations, where required

Important for publication: Do not present this general reference sheet as Securea's official TDS. To create an accurate, product-specific version, you need the actual manufacturer's grade name and its current specification sheet.