



Technical Data Sheet (TDS)



Product Name: Carnauba Wax

INCI Name: *Copernicia Cerifera (Carnauba) Wax*

CAS Number: 8015-86-9

EC Number: 232-399-4

Chemical Classification: Natural Plant-Based Wax

Functional Category: Viscosity Modifier / Gloss Enhancer / Emollient

Physical & Chemical Properties

Property	Value (Typical Range)	Method / Standard
Appearance	Pale yellow flakes or powder	Visual
Odor	Mild, characteristic	Sensory
Melting Point	82.5 – 86.0 °C	ABNT NBR 15564:2008
Acid Value (mg KOH/g)	2.0 – 7.0	ABNT NBR 15513:2008
Saponification Value	78.0 – 95.0	USP 43/NF 38 p1377
Ester Value	71.0 – 88.0	ABNT NBR 15513:2008
Unsaponifiable Matter	50 – 55%	Farmacopeia BR 6ed. P217-218
Moisture Content	≤ 0.5% (T1/T3), ≤ 1.0% (T4)	ABNT NBR 14709:2001
Volatile Matter	≤ 0.6% (T1), ≤ 1.0% (T3/T4)	ABNT NBR 14709:2001
Ash Content	≤ 0.10% (T1), ≤ 0.30% (T3/T4)	ABNT NBR 14710:2001
Solubility	Insoluble in water; soluble in hot ethanol, chloroform, diethyl ether	Internal Method
Flash Point	≥ 270 °C	ABNT NBR 15565:2008

Heavy Metal Limits (Ph. Eur. / USP)

Element	Limit (ppm)
Lead	≤ 2
Arsenic	≤ 3
Mercury	≤ 1
Total Heavy Metals	≤ 20 µg/g

Packaging & Storage

- **Packaging:** 25 kg bags (flakes, powder, or lumps depending on grade)
- **Storage Conditions:** Store in a cool, dry place away from direct sunlight and heat
- **Shelf Life:** 36 months under recommended conditions

Typical Applications

- **Cosmetics:** Lipsticks, balms, creams, mascaras
- **Pharmaceuticals:** Tablet coating agent
- **Food Industry:** Glazing agent (E903)
- **Industrial:** Polishes, lubricants, mold release agents
- **Textile & Leather:** Waterproofing and gloss enhancement

Regulatory & Compliance

- **Food Grade Approval:** E903 (EU Regulation 231/2012) – Type 1 and selected Type 3
- **Vegan / Natural Claim:** 100% plant-based, suitable for natural formulations
- **REACH Status:** Exempt (natural substance)
- **Allergen Declaration:** Free from known allergens

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