



Hydrogenated Castor Oil (HCO)

CAS No.: 8001-78-3

Formula:

DESCRIPTION

Hydrogenated Castor Oil (HCO) is a hard, brittle, wax-like compound obtained by controlled hydrogenation of refined castor oil. It appears as cream to white flakes with a high melting point and stable physical properties. HCO combines lubricity, thickening, and stabilizing functions, making it a versatile additive for both industrial and personal care applications.

KEY FEATURES

- Waxy solid form, stable at elevated temperatures
- Excellent thickening and stabilizing capability
- Low acid and iodine values for consistent performance
- Biobased origin from renewable castor oil

APPLICATIONS

- Industrial: Lubricants and greases for improved viscosity and thermal stability
- Personal Care: Cosmetics, deodorants, and creams as a thickening and stabilizing agent
- Other Uses: Pigments, coatings, and specialty formulations where wax-like consistency and low reactivity are required

TYPICAL SPECIFICATIONS

Parameter	Specification
Specific Gravity (25/25 °C)	0.97 – 1.03
Acid Value	≤ 3.0
Hydroxyl Value	≥ 155
Iodine Value	≤ 3.0
Saponification Value	≤ 3.0
Color (Gardner)	≤ 3.0
Melting Point (°C)	83 – 89





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This document is subject to revision without notice as new data becomes available.

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PACKAGING

- 25 kg bags
- 500 kg or 1000 kg super sacks

SHELF LIFE

24 months from production date when stored as recommended. Re-test is advised if product is beyond stated shelf life or packaging has been opened.

STORAGE

Store in sealed, original packaging in a dry place, away from direct sunlight and moisture.

SAFETY & HANDLING

Use PPE including gloves, safety glasses, and protective clothing. Avoid inhalation of dust and direct contact with skin and eyes. Refer to Safety Data Sheet (SDS) for detailed safety, handling, and disposal guidance.