

# HYCOS

High performance Synthetic Hard  
Waxes for Personal Care  
applications

**BHT free - Additives free - Preservatives free  
Antioxidants free**

[www.hywax.com](http://www.hywax.com)

## Pure excellence

**HYCOS** are the best alternative ingredients for the formulation of creams, ointments and balms for body, lip and haircare. They boasts outstanding properties in all stick applications.

**HYCOS** Synthetic Hard Waxes form stable oil gels and improve the oil binding capacity with many other widely used cosmetic components and in particular with linear silicones, which are irreplaceable when it comes to innovative haircare products.

Obtained through dedicated synthesis under controlled conditions, their stable physical properties promote effective stable crystallization, proper film formation and gloss, which are important for all stick applications, including antiperspirants, deodorants and lipsticks and they improve the stability of all ointments and creams due to their higher melting behavior also in warm climate conditions

### The innovative ingredient for high-performance body care and stick applications.

**HYCOS** physical data, melting range of 70 – 100 °C , their hardness and molecular structure reveal controlled melting behavior, ensuring easy and repeatable processes and performance.

**HYCOS** stabilizes emulsions and improves temperature resistance, even in sunscreen formulations and severe temperature conditions.

#### Approvals, Facts & Figures

- Compliant with EU Cosmetics Regulations
- Compliant with FDA 21 CFR 175.250
- CAS no.: 8002-74-2
- Preservatives and antioxidants free
- Shelf life: 5 yrs
- Form: Pastilles

## Ideal for Beauty and Body Care

**HYCOS Synthetic Hard Waxes** are derived from natural gas. Unlike other products, purpose-made synthetic products possess maximum purity. By combining the latest technology, high performance and purity, we make sure that **HYCOS** is the right choice for each of your requirements.

HYCOS	Hycos 75	Hycos 80	Hycos 98
<b>Congealing point °C</b>	75-82	80-85	98-105
<b>Needle penetration @ 25 °C - mm/10</b>	5-15	4-9	0-1
<b>Drop point °C</b>	90,0 max	95,0 max	120 max
<b>Viscosity mPa/s</b>	6,0-9,0	7,0-11,0	6,0-14,5 (135°C) mPa/s
<b>Saybolt color</b>	20-30	15-30	15 - 30
<b>Appearance</b>	White Pastilles	White Pastilles	White Pastilles

### Benefits for all applications

#### Synthetic hard wax

- Effective crystallization for reliable stick production processes
- Film formation, gloss, oil binding and temperature stability enhancement in formulations
- Emulsion stability
- Formation of stable oil gels with linear silicons
- Odorless, inert and neutral, un-polar excipient
- No allergens



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