

USES OF BEESWAX



1 USED BY BEES

Utilized by the bees in building combs for brood and for storage of honey and pollen.



2 INDUSTRIAL USES

- a. Cosmetics – soap, cream, lipsticks, ingredients for masks, eye liner, blush and others
- b. Beeswax candle



3 PHARMACEUTICAL USES

Pharmaceutical uses - as ingredients of ointments and creams for burn, joint pain, and wounds.

THE BEEKEEPING MOTTO

“

Beekeeping is learning by doing,
doing to care,
caring to multiply and fly,
flying to collect and carry,
carrying to store,
storing to utilize and share,
sharing to live,
living to serve,
serving through beekeeping. ”

-NARTDI



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BEES WAX

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DMMMSU-NARTDI Apimonitor



CHEMICAL COMPOSITION

01

Esters

50 - 71%
Example:
Myricyl palmitate

02

Hydrocarbons

(C27-33) - 12
to 16 %

03

Free Fatty Acids

(C12-32) - 12 to
14 %

04

Straight chain monohydric alcohols and others

6%



Did you know?

Coming from the honeycomb of the honeybee, beeswax is a completely all natural substance straight from Mother Nature. Honeybees consume honey and pollen to produce the wax. It takes about eight pounds of honey to produce just one pound of beeswax.

PROPERTIES

- 1 Freshly produced beeswax is white, later turns to yellow or brown.
- 2 Has a typical odor, originating from bees, honey, propolis and pollen.
- 3 Beeswax is an inert material with high plasticity at a relatively low temperature.
- 4 The structure of beeswax is crystalline.
- 5 Beeswax is also insoluble in water and resistant to many acids.
- 6 It is soluble in most organic solvents such as ether, xylol, acetone, toluene and ethanol when heated above the wax melting point. Partially soluble in these solvent at room temperature.
- 7 It has antibacterial and antifungal activities.