

Technical Data Sheet

SunWax Bees(W)

Beeswax
 CAS# 8012-89-3

Item	Specification
Impurities, % (Benzene Insoluble)	Max 1.0
Hydrocarbon, %	16-18
Melting point, °C	62-67
Acid value, (KOH mg/g)	16.0-23.0
Iodine value, (ILDINE g/100g)	8.0-13.0
Saponification value, (KOH mg/g)	75.0-110.0
Refractive Power(75°)	1.4410-1.4430

Description

Beeswax is a 100% natural wax produced in the bee hive which is secreted by 12-18 days old worker bee, from wax glands beneath segments six to nine of the abdomen. Beeswax is the "building material" for honeycomb and sealing the ripened honey.

Beeswax Source

Beeswax collected more in Spring and Autumn to complete, to prompt bees more secrete wax and built spleen, beekeeper enhance swarm feeding and management, increase bees gorge themselves with honey or sugar syrup and huddle together to raise the temperature of the cluster. To produce one pound of beeswax require the bees to consume about ten pounds of honey.

When beekeepers extract the honey, they cut off seal-caps wax, capping wax and pedestal from each honeycomb cell with an uncapping knife or machine. Besides, Beekeeper collected used many years old honeycomb, new honeycomb, building superfluous spleen.

Beeswax Characteristic

Beeswax color varies from nearly white to brownish, but most often a shade of yellow, due to contain pollen and propolis present in fat-soluble cartenoida or other pigment caused, also depending on gathered different type flowers by the bees.

At normal temperature, beeswax is solid state, beeswax fragrant smell the similar with honey and bee pollen taste, specific gravity 0.954-0.964 g/ml at 20℃, melting point 62-67℃, flashing point 204.4℃, beeswax become smoking at 300℃, decompose into carbon dioxide, acetic acid and other volatility material. Insoluble water, slightly soluble in ethanol and diethyl ether, easy soluble in trichloromethane.

The composition of beeswax is complex, approximate chemical formula for beeswax is $C_{15}H_{31}COOC_{30}H_{61}$. Its main components are palmitate, palmitoleate, hydroxypalmitate and oleate esters of long-chain (30–32 carbons) aliphatic alcohols, with the ratio of triacontanyl palmitate $CH_3(CH_2)_{29}O-CO-(CH_2)_{14}CH_3$ to cerotic acid $CH_3(CH_2)_{24}COOH$, the two principal components, being 6:1.

Application

SunWax Bees(W) from is remove impurity and filtered 100% natural crude beeswax by physical technology, without addition any chemicals and other wax, ensure final beeswax is 100% pure natural without any foreign additives, the best environmental protection, green and safety, that can be directly used for cosmetics, food, candles, pharmaceutical, encaustic art etc.

This product main used for manufacture food, pharmaceutical, cosmetics, soap, Ointment, animal husbandry etc, also used for manufacture candles, comb foundation, agriculture, cerecloth, shoe polish, lubricants and coating etc.

- 1) In cosmetic industry: manufacture body wash, lip rouge, blusher, soap and body wax etc.
- 2) In pharmaceutical industry: manufacture of dental casting wax, baseplate wax, adhesive wax, pill outer shell, ointment etc.
- 3) In food industry: manufacture coating, packing and coat of food etc.
- 4) In agriculture and animal husbandry: manufacture fruit tree grafting wax and pest adhesive etc.
- 5) In beekeeping and candle making industry: manufacture beeswax foundation, beeswax candles and was bowl etc.
- 6) In material industry: manufacture cerecloth, shoe polish, lubricants and coating etc.

Storage

Store in ventilate and dry place, prohibit mixing with poisonous, harmful and tainted goods store. Attention ratproof and insect prevention.

Do not expose to sun and put in high temperature, do not mix transport with poisonous, harmful and tainted goods.

Shelf Life

2years