



COMMERCE with NO BORDER

WAX Product catalogue



Q1. 2022



PARAFFIN WAX

INTRODUCTION

Wax is an organic, plastic – like substance that is solid at ambient temperature and becomes liquid when melted. In general terms waxes are naturally or synthetically derived.

Crude oil is transported to refineries where it is refined into finished products by complex processes.

One of the many products derived from refining is lube/base oils. The waxes are produced in the lube / oil refining process.

Petroleum waxes as a mixture of hydrocarbons are classified in three general categories. They include microcrystalline, macrocrystalline and semi-microcrystalline paraffin wax. CNB Paraffin Waxes are macrocrystalline and provide a wide variety of physical characteristics such as oil content and melting point, can be used in a wide range of industries.

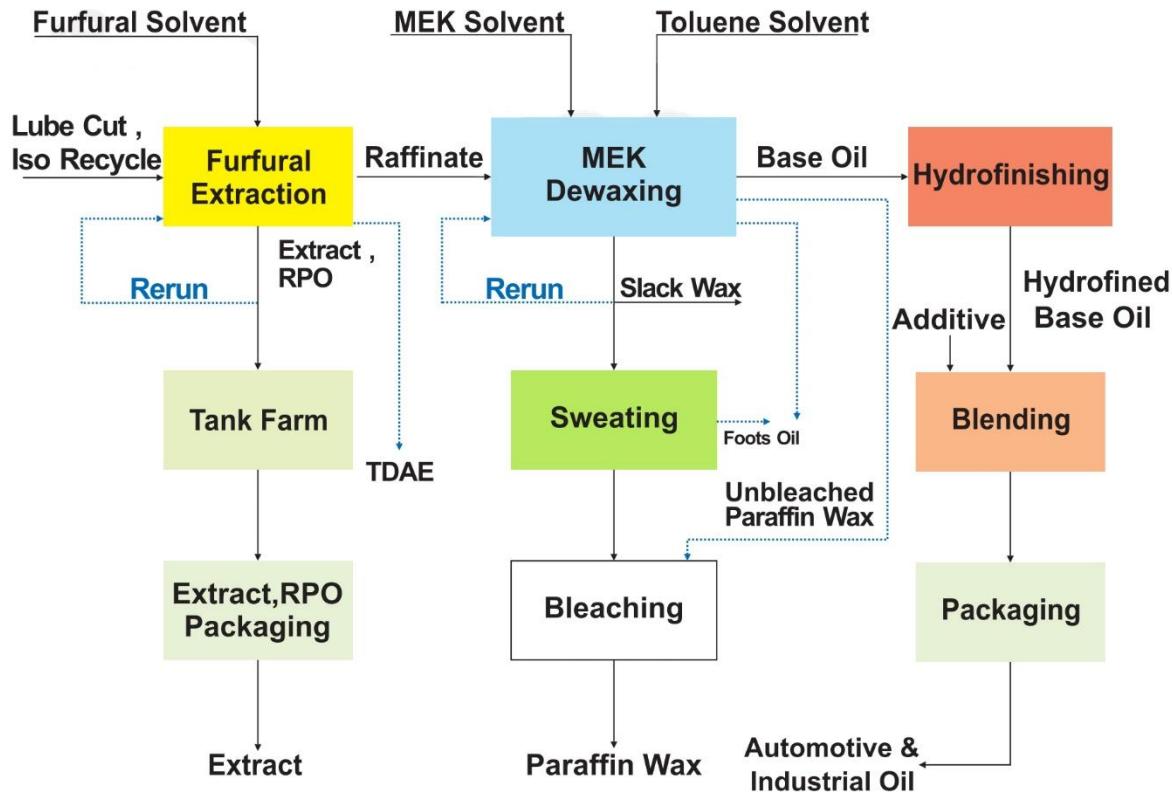
PRODUCTION OF PETROLEUM WAXES

Base oils are produced in a series of steps which are designed to enhance certain desirable properties such as viscosity index, low temperature properties...

In base oil production process, the solvent extracted lube fraction is dewaxed by chilling to a low temperature which removes much of the wax.

This improves the low temperature fluidity of the product and produces dewaxed lube fractions and slack wax. Chart 1 illustrates refining process in CNB Through deoiling/sweating of slack wax, paraffin waxes are obtained.





Chat 1: Process of WAX Production





Unbleached Paraffin Wax

Typical Characteristics

| Unbleached Paraffin Wax Grade | Oil Content %wt max. | Melting Point °C | Color Max. | Penetration 0.1mm@25°C | Viscosity @ 100°C (cSt) |
|-------------------------------|----------------------|------------------|------------|------------------------|-------------------------|
| | | ASTM D-721 | ASTM D-87 | ASTM D-1500 | ASTM D-1321 |
| M1 | 1 | 62-66 | 1 | 15-19 | 4.5-6.4 |
| M2 | 2 | 62-66 | 1 | 15-19 | 4.5-6.4 |
| M3 | 3 | 61-65 | 1 | 15-19 | 4.5-6.4 |
| M5 | 5 | 60-65 | 1 | 15-19 | 4.5-6.4 |
| M10 | 10 | 60-65 | 1 | 15-19 | 4.5-6.4 |
| H1 | 1 | 68-71 | 4.5 | - | 6.5-8.0 |
| H2 | 2 | 68-71 | 4.5 | 21-28 | 6.5-8.0 |
| H3 | 3 | 68-71 | 4.5 | 21-28 | 6.5-8.0 |
| H5 | 5 | 68-71 | 4.5 | - | 6.5-8.0 |
| H10 | 10 | 66-69 | 4.5 | - | 6.5-8.0 |

Packing:

Slabs (20x50x4 cm) in carton (app.24 Kg)

Granules packed in one Plastic bag in carton (app. 16 Kg)





Slack Wax

Slack Wax, a mixture of oil and wax is a by product of the base oil refinery process, which serve as a feed stock and that is further refined to produce paraffin wax.

CNB Slack Wax can be used as blending components or water proofing agent in the manufacture of various industrial products such as candles, canvass coatings and composite wood panels.

These waxes can also function as controlled release agents for various chemicals and fertilizers.

Typical Characteristics

| Slack Wax Grade | Oil Content %wt max. | Congealing Point (°C) | Viscosity @ 100°C (cSt) | Color | Appearnce |
|-----------------------|----------------------|-----------------------|-------------------------|-------------|-------------|
| | ASTM D-721 | ASTM D-938 | ASTM D-445 | ASTM D-1500 | Visual |
| Ultra Light Slack wax | 23 | 49-51 | 3.9 | - | Creamish |
| light slack wax 1 | 31 | 47-59 | 3.8-4.4 | 1 | Creamish |
| light slack wax 2 | 31 | 52-59 | 4.5-6.5 | - | Yellow |
| heavy slack wax 1 | 33 | 57-65 | 6.6-10.5 | 2.5max. | Light brown |
| heavy slack wax 2 | 33 | 57-65 | 6.6-10.5 | 3-4.5 | Dark brown |

Packing:

Bulk, Iso Tank, 208 Liters Steel drum



Foots Oil

Foots oil or residue wax, is a by product obtained by slack wax deoiling or sweating in the paraffin wax manufacturing process it is used to textile, leather and rubber industries, as well as petroleum jelly and white oil manufacturing.

Typical Characteristics

| Foots Oil Grade | Oil Content %wt | Congealing Point °C | Viscosity @ 100 °C (cSt) | Color |
|-----------------|-----------------|---------------------|--------------------------|-------------|
| | ASTM D-721 | ASTM D-938 | ASTM D-445 | ASTM D-1500 |
| LIGHT | 25-40 | 40 | 3.6-4.6 | 1.5 |
| MEDIUM | 20-50 | 25 | 4.7-6.9 | 2.0 |
| HEAVY | 25-50 | 25 | 7-11.5 | 2.5 |

Packing:

208 Liters Steel Drum

