

Paraffin

Fully Refined Paraffin Wax



Fully refined paraffin wax is mainly refined by Fushun, Daqing and Dalian subsidiary refineries of Petrochina and Sinopec. The crude oil is exploited from Shenbei and Daqing oilfield, which is characterized by high wax content and superior quality. Fully refined paraffin wax takes its characteristics as pure white color, low oil content, good stability, odorless, negative mechanical impurity and water, which complies with FDA standard. It is widely used for high quality candle making, food packaging, cosmetics producing, fruit fresh-keeping, rubber anti-aging and so on. The highly refined wax with little benzene and methylbenzene can meet European and American environmental standards.

Fully refined paraffin wax is offered in liquid and solid forms, which are packaged in different ways:

1. Liquid wax: in bulk ship and ISO tank
2. Solid wax in slab and granular forms
 - 1) Kunlun brand: 25kg/50kg PP woven bags
 - 2) Neutral Packing: 25kg/50kg PP woven bags, 25kg/28kg cartons

全精炼石蜡的技术要求和检验方法

Technical Requirements and Testing Methods of Fully Refined Paraffin Wax

Item		Specification										Text Methods
		FR52	FR54	FR56	FR58	FR60	FR62	FR64	FR66	FR68	FR70	
Melting Point (°C)	Min	52	54	56	58	60	62	64	66	68	70	GB/T 2539
	Max	54	56	58	60	62	64	66	68	70	72	
Oil Content Wt %	Max	0.5										GB/T 3554
Color/Saybolt	Min	+27				+25						GB/T 3555
Light Stability	Max	4				5						SH/T 0404
Needle Penetration(25°C) 1/10mm	Max	19				17						GB/T 4985
Kenimatic Viscosity(100°C) mm ² /S		Report										GB/T 265
Odor	Max	1										SH/T 0414
Acid and Alkali with Water Solubility		Negative										SH/T 0407
Mechanical Impurity and Water		Negative										OBSERVING



Paraffin

Semi Refined Paraffin Wax



Semi refined paraffin wax is mainly produced by Daqing and Fushun refineries from the crude oil in Daqing Oilfield. This product is characterized by pure white, moderate oil content, good stability, odorless, negative mechanical impurity and water. It is mainly used in the production of candles, wax paper, crayon, moisture-proof material, chemical raw material, etc. The semi refined paraffin wax is delivered mainly in solid form. KUNLUN brand from refineries win high reputation globally. Their packing method is well-known and fixed, while the packing method of neutral products is much more flexible. Various packing methods are available according to customers' requirements.

半精炼石蜡的技术要求和检验方法

Technical Requirements and Testing Methods of Semi Refined Paraffin Wax

Item		Specification										Text Methods
		SR52	SR54	SR56	SR58	SR60	SR62	SR64	SR66	SR68	SR70	
Melting Point (°C)	Min	52	54	56	58	60	62	64	66	68	70	GB/T 2539
	Max	54	56	58	60	62	64	66	68	70	72	
Oil Content Wt %	Max	2										GB/T 3554
Color/Saybolt	Min	+18										GB/T 3555
Light Stability	Max	6										SH/T 0404
Needle Penetration(25°C) 1/10mm	Max	23										GB/T 4985
Kenimatic Viscosity(100°C) mm ² /s		Report										GB/T 265
Odor	Max	2										SH/T 0414
Acid and Alkali with Water Solubility		Negative										SH/T 0407
Mechanical Impurity and Water		Negative										OBSERVING



Soy Wax



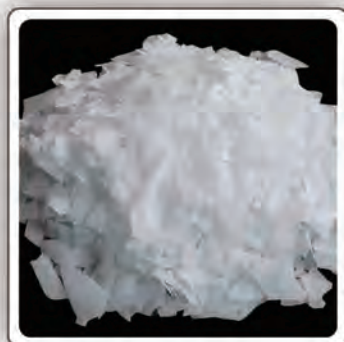
Soy Wax

Soy wax is a vegetable wax made from the oil which is extracted from soybeans. The hydrogenation process converts some of the fatty acids in the oil from unsaturated to saturated. This process alters the melting point of the oil, makes it a solid at room temperature.

Applications

Soy wax is widely used in candles, crayons, wax paper, cosmetics and medical industries. It's well welcomed based on following advantages.

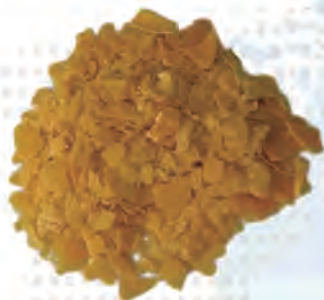
1. Renewable and natural resources without any petrochemical ingredients. Harmless to human being and environment.
2. Production cost is lower than other kinds of waxes.
3. For making candles, soy wax has longer burning time. Its soft make it especially suitable for container candles. Easy demoulding, distribution evenness of colors, no cracking, no off cup and no smoke when burning.
4. Biodegradable feature is good for environment protection.



Technical Requirements of Soy Wax

Items	Specification	
Acid Value (mgKOH/g)	0.9max	0.85
Peroxide Number (mmol/kg)	3.9max	3.5
Moisture (%)	0.05max	0.04
Color (Lovibond,133.4mm cell)	3.0R max	3.0R
Melting point(°C)	46 - 54	46-54
Appearance	Fine and white at room temperature, yellowish clear liquid when heated to melt, no odor and impurity	
Ingredient	100% hydrogenated vegetable oil without mineral wax	
Shelf life	2 Years	

Palm Wax



Palm Wax

Palm wax is a wax of the leaves of the palm. It is known as "queen of waxes" and in its pure state, usually comes in the form of hard yellow-brown flakes. It is obtained from the leaves of the carnauba palm by collecting and drying them, beating them to loosen the wax, then refining and bleaching the wax.

Applications

Palm wax can produce a glossy finish and as such is used in automobile waxes, shoe polishes, dental floss, food products such as sweets, instrument polishes, and floor and furniture waxes and polishes, especially when mixed with beeswax and with turpentine.

Because of its hypoallergenic and emollient properties as well as its shine, carnauba wax appears as an ingredient in many cosmetics formulas where it is used to thicken lipstick, eyeliner, mascara, eye shadow, foundation, etc.



Technical Requirements of Palm Wax

Semi hydrogenated palm wax		Specification
ITEM	TECHNICAL INDEX	RESULT
Color	$R \leq 3.0, Y \leq 30$	$R=2.8, Y=20$
Melting Point °C	56-60	57.8
Iodine Value, g/100g:	8-10	8.3
Acid Value, mgKOH/g	≤ 5.0	0.86
Moisture	≤ 0.5	0.1

Fully hydrogenated palm wax		Specification
ITEM	TECHNICAL INDEX	RESULT
Color	$R \leq 2.0, Y \leq 15$	$R=1, Y=10$
Melting Point °C	≥ 58	58.5
Iodine Value, g/100g:	≤ 0.5	0.35
Acid Value, mgKOH/g	≤ 1.2	0.8
Moisture	≤ 0.3	0.09

Beeswax

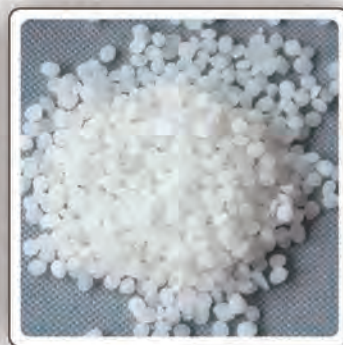


Beeswax

The beeswax is formed by worker bees, which secrete it from wax producing glands to build honeycomb cells in which their young are raised with honey and pollen cells being capped for storage. Chemically, beeswax consists mainly of esters of fatty acids and various long-chain alcohols.

Applications

1. In skin care and cosmetics, beeswax is used in lip balm, lip gloss, hand creams, and moisturizers; and in cosmetics such as eye shadow, blush, and eye liner. Beeswax is an important ingredient in moustache wax and hair pomades, which make hair look sleek and shiny.
2. In food preparation, beeswax is used as a coating for food, by sealing out the air, protection is given against spoilage and mold growth. It also can be used as a food additive, in small quantities acting as a glazing agent, which serves to prevent water loss or to provide surface protection for some fruit.
3. In candle-making, beeswax is further recommended for the making of candles used in the liturgy of churches.
4. In other areas, beeswax is an ingredient in surgical bone wax, which is used during surgery to control bleeding from bone surface; shoe polish and furniture polish can both use beeswax as a component.



Technical Requirements of Beeswax

Items	Specification
Appearance	Yellow
Odor	Natural Smell
Melting Point (°C)	62-67
Acid Value(KOH mg\g)	17 – 22 (KOH, mg/g)
Saponification Value(KOH mg\g)	87 – 102 (KOH, mg/g)
Ester Value((KOH mg\g)	70 – 80 (KOH, mg/g)
Hydrocarbon(%)	16 – 18%

Candle



Candle

With over 10-year rich experience and reliable resources, Techsheen provides various candles, such as pillar candles, tea-light candles, container candles and fragrance candles in different sizes and raw materials. The candles are widely used in lighting, religion, decoration and celebration, etc. Based on outstanding quality and competitive price, Techsheen candle products are popular both in domestic and overseas markets.

Category

Pillar



Tea Light



Container



Fragrance



Candle Machine



HD-080

Tealight Wick and Cup
Assembling Machine

Tealight Wick and Cup Assembling Machine

HD-080 This product is made up of conveyor ,filling head, wax tank, heating box ,control box (conveyor , filling head ,sprayed nozzle and wax tank are made of stainless steel).Liquid wax is pumped into filling head by a heat resistant pump which is in the wax tank. Liquid wax will move between filling head and wax tank circularly. When the containers on the conveyor move under the filling head, a sensor will detect them and begin to fill .The liquid wax volume can be adjusted and set by a timer on control box. It has two operating ways: auto-filling and manual filling, easy to control. While we can add cooling system according to customers' require in order to short cooling time.

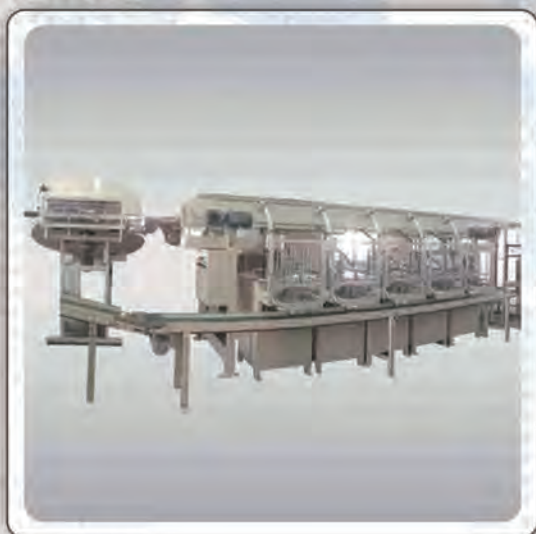
We can make conveyor as 12m, 24m, 36m, also can design as customers' require. The speed of conveyor moving is controlled by VFD, so you can control conveyor speed according to filling time.

Each set of filling line includes two filling heads, two wax tanks and two heating boxes (if 12m conveyor, each section will be only one).

Specification

Item	Specification
Model Type	HD-080
Dimension	36000*1530*1850mm (Excludes the distribution box and wax box)
Tealight Size	37.2*12mm to 37.2*20mm
Output	13000 pcs/hour (tealight)
Voltage	3 phase 380V 50Hz
Power	47.5 KW
Gross Weight	3500 KG

Candle Machine



HD-7200

Production Line for
Tealight

Production Line for Tealight

HD-7200 This product line is made up of 5 wick & cup assembling sections, 1 aluminium cup conveyor, 1 tealight block conveyor and 1 final production conveyor. It is used to assemble semifinished products like tealight block, aluminium cup, wick sustainer and candle wick together. VFD on the machine is to adjust working speed, PLC control. Main electrical parts are famous brand. With detecting system, when no tealight block, no wick, no sustainer, no cup, any issues of these happen on one of those 5 sections, the one will stop automatically, at the same time display light will shine, worker will know and can do necessary maintenance, save time. The machine design absorbs advantage of home and abroad, combines actually using condition in candle factory, in order to make it mostly reaching customers' require.

Specification

Item	Specification
Model Type	HD-7200
Dimension	1900*900*1100mm
Tealight Size	37.2*12mm to 37.2*20mm
Output	35000pieces/hour
Voltage	7.5KW (5 sections and 3 conveyer belt)
Power	115W
Gross Weight	1500KG
Specification of wick inserting & cup putting sections	1200×600×1700mm (For one part)
Specification of tealight block and aluminium cup conveyor	4800×1500×1900mm
Specification of final production conveyor	Can be made as customer's need
Specification after setting	4800*2100*1900mm

Candle Machine



HD-010
 Wick Dipping
 Machine

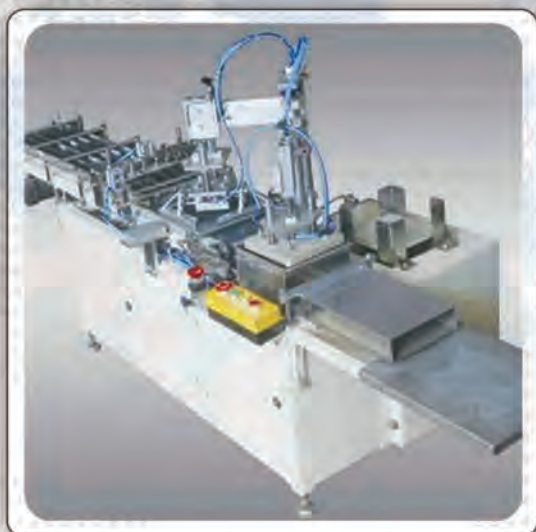
Wick Dipping Machine

HD-010 This product is used to coat wax on cotton candle wick by different times and then cooling in order to get different diameter wick. Wick surface is smooth and round, can be used on wick cutting machine directly. It has auto temperature controlling function, so melting is safe. Parts which touch wax are made of stainless steel, aluminium or with plating, avoid rusting for touching wax. Main motor is combination of stepless motor and worm reducer, this will be easy for controlling speed.

Specification

Item	Specification
Model Type	HD-010
Dimension	4200×800×1450mm
Tealight Size	37.2*12mm to 37.2*20mm
Output	2000 m/hour
Voltage	3 phase 380V 50Hz
Power	2.4KW
Gross Weight	300KG
Diameter of wick	1.2—3.0mm

Candle Machine



HD-072

Tealight Plastic Bag
Packing Machine

Packing Machine

HD-072 This product is used to pack tealight into plastic bag: each layer 25pcs, 50pcs/bag (2 layers), 75pcs/bag (3 layers) or 100pcs/bag (4 layers) . It is made up of packing channel, arms, lifting platform and candle exit. Electrical parts are famous brand, quality can be trust.

This product can be connected with tealight conveyor, tealight go through packing channel, there are 5 sensors above the channel. When tealight in the channel are enough for one layer, the door in the front will open, two arms are separately used to take tealight and hard paper. When one arm put tealight on lifting platform, hard paper is taken by the other arm at the same time; The arm will go down to take tealight again, meanwhile hard paper is put on previous tealight. If tealight quantity is not enough in packing channel, machine will wait for enough tealight then goes on working. This will avoid short packing.

Specification

Item	Specification
Model Type	HD-072
Dimension	1900*900*1100mm
Gross Weight	200KG
Tealight Size	37.2*12mm to 37.2*20mm
Output	10000-12000 pcs/hour
Voltage	220V
Power	115W