

# Arjun BEESWAX INDUSTRIES

### An ISO 9001-2015 Certified Company

Corp. Office : Arjun Corporate Park, Plot No. 929 & 930, G.I.D.C., Waghodia, Dist. Vadodara - 391760. Gujarat, India. UNIT 1 : Plot No. 844/A, 844/B & 831, G.I.D.C., Waghodia, Dist. Vadodara - 391760. Gujarat, India. UNIT 2 : Survey No. 654 & 655, Village : Limda, Ta. Waghodia, Dist. Vadodara - 391760. Gujarat, India. Phone : +91 2668 299322/23/24/25/26, 262081, 262950/52, Mobile : +91 97277 80947, 75748 66541/43 Email : arjunbeeswax@yahoo.com, arjun@arjunbeeswax.com, mktg@arjunbeeswax.com, export@arjunbeeswax.com, Website : www.arjunbeeswax.com, www.beeswaxindia.com

INDIA

शुद्ध और सुंदरता की पहचान है हम® the wax partner

discover the natural wonders <sup>of</sup> arjunbeeswax

#### **ARJUN<sup>®</sup> n BEESWAX INDUSTRIES** An ISO 9001-2015 Certified Company Anjun Naturality **OUR CERTIFICATION** GROUP Jotal Natural Issai DAR IAF

INDIA

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#### INDIA

### **INTRODUCTION**

#### Welcome to Arjun Beeswax....

Manufacturer Arjun Beeswax Industries, India's one of the Eminent Manufacturers, Exporters and Suppliers of Premium Quality of Pharmaceutical, Cosmetic and Industrial Waxes.

Our Product application Tablet coating, Ointments, Mascara, Lipsticks, Creams, Body Lotion, Lip Care, Luxury Soap, Sun Cream, Baby Cream, Facial Cream, Chewing Gum, Chocolate, Confectionery, Fruit Coating, Candle Making, Shoe Polishes and many other Industrial uses.

#### **Our Journey**

Arjun Beeswax, founded by Shri Arjun Bheda in the year 1995 had a modest beginning with limited capital, one product i.e Beeswax and one market i.e India. But the propelling force within the founder and his business acumen opened new vistas. His dare - to - win attitude led to exploring of newer markets such as Africa, developing USA and European markets and introduction of newer products.

#### **Our Goal**

- To be one of the respected business houses in the country, commanding credibility & enjoying customer satisfaction in both national and international markets.
- To ensure our products and services are cost competitive and that resources are continually dedicated to productivity improvements.

Company is well equipped with a planned strategy which enables day to day operation and helps in deriving perfection in every manner. The international standard of this organisation is maintained by well trained and professional teams of employees, which are inclusive of QA, R & D along with QC and Microbiological Laboratories.

#### **Our Quality Certification**

- FDA approved
- ♦ GMP
- ♦ GLP
- FSSAI
- APEDA
- ECOCERT NPOP
- ISO 9001 : 2015
- HALAL
- KOSHER
- REACH
- ISI INDIAN STANDARDS INSTITUTE

#### **Quality Commitment**

- We have set quality standard to produce product as per FDA, GMP and ISO guideline.
- We have world class Manufacturing process, Packaging, transportation and storage condition and other factors that reflect to quality of the product and services too.
- Quality permits everything we do at Arjun literally, from R&D, production development and vendor selection through manufacturing, packaging, and aftermarket with customer, response/support, Quality Management ensures that everything continues to run as planned. Our "Quality by Design" approach means that quality not only runs through every phase of the product life cycle, it is built into every step of the process.
- It's been said that, at Arjun, the amount of resources dedicated to Quality Management goes beyond what is typically considered satisfactory in the Excipient business. Of course! When it's about quality, we leave nothing to chance.

#### **Our Export World Wide**

- Australia
- Bangladesh
- ♦ Canada
- Dubai
- Egypt
- Europe
- Indonesia
- ♦ Japan
- KenyaKuwait

- Malawi
- Nepal
- Russia
- Saudi Arabia
- Sri Lanka
- Taiwan
- Uganda
- USA
- Vietnam

# WHITE BEES WAX

#### INCI Name: Cera alba

The Honey Bee, Apis Mellifera, Secretes Beeswax to build the walls of the honeycomb. Secreted Wax is a transparent colorless liquid, which turns into a semi-solid substance on contact with the atmosphere. Beeswax is purified from its raw state by freeing it of solid impurities by melting and centrifugation.

#### **Applications:**

Pharmaceutical, Cosmetic & Coating : Tablet Coating, Bone treatment, Ointments, Creams, Lotions, Lipsticks, Skin Care, Lip Balm, Confectionery, Shoe Polishes, Candle, etc.

### **Specification of White Bees Wax - IP**

Sr. No	Tests	Specification
5.1.6	Description	Yellowish-white color pastilles or slab and faint and characteristic odor
2.	Solubility	Practically insoluble in water, partially soluble in hot ethanol and completely soluble
		in fatty and essential oils.
3.	Melting range	61° to 65°C
4.	Acid value	5 to 15
5.00	Ester value	75 to 95
6.	Saponification value	87 to 104
<b>()</b> 7.00	Ceresin, paraffin & other waxes	Solution may be opalescent & no precipitate before the temperature reaches 65°C
8.	Glycerin & other polyhydric alcohol	Any bluish violet color of solution A is not more intense than that solution B
9.	Ratio number	5 to 19
10.	Fats, Fatty acids, japan wax and resin	No precipitate is produced

### **Specification of White Bees Wax - BP**

Sr. No	Tests	Specification
(0,1,0,0)	Description	White or yellowish white color pastilles or slab and faint and characteristic odor
2.	Solubility	Practically insoluble in water, partially soluble in hot ethanol (90 per cent V/V)
		and completely soluble in fatty and essential oils.
3.	Relative density	About 0.960
4.00	Melting range / Drop point	61° to 66°C
5.	Acid value	17.0 to 24.0
6.00	Ester value	70 to 80
7.	Saponification value	87 to 104
8.00	Ceresin, paraffin & other waxes	Solution may be opalescent & no precipitate before the temperature reaches 65°C
9.	Glycerol & other polyols	Any violet blue color of sample solution is not more intense than the standard solution

02

# WHITE BEES WAX

#### INCI Name: Cera alba

The Honey Bee, Apis Mellifera, Secretes Beeswax to build the walls of the honeycomb. Secreted Wax is a transparent colorless liquid, which turns into a semi-solid substance on contact with the atmosphere. Beeswax is purified from its raw state by freeing it of solid impurities by melting and centrifugation.

#### **Applications:**

**Pharmaceutical, Cosmetic & Coating**: Tablet Coating, Bone treatment, Ointments, Creams, Lotions, Lipsticks, Skin Care, Lip Balm, Confectionery, Shoe Polishes, Candle, etc.

### **Specification of White Bees Wax - USP**

Sr. No	Tests		Specification
50166	Description	6666	Yellowish-white color pastilles or slab and faint and characteristic odor
2.	Solubility	$\tilde{\Omega}$	Sparingly soluble in cold alcohol, insoluble in water, soluble in chloroform, in ether.
			partially soluble in cold benzene
3.	Melting range	<u> XQQQ</u>	62° to 65°C
4.	Acid value	6666	17 to 24
5.00	Ester value	$\phi\phi\phi\phi$	72 to 79
6.	Saponification cloud tes	stococc	The solution shows no cloudiness or globule formation before the temperature
$\phi\phi\phi\phi$	$\phi$	addar Addar	reaches 65°C
7.	Fats or Fatty Acids,	Analysis 1.	The wax separates, leaving the liquid clear, turbid, or translucent, but not opaque.
$\dot{\chi}\dot{\chi}\dot{\chi}\dot{\chi}$	japan wax,	Analysis 2.	The liquid remains clear or shows NMT a slight amount of turbidity or precipitate.
66662	Rosin and soap	20025	

### Specification of White Bees Wax - EP

Sr. No	Tests	Specification
1.	Description	White or yellowish white color pastilles or slab and faint and characteristic odor
2.	Solubility	Practically insoluble in water, partially soluble in hot ethanol (90 per cent V/V) and
		completely soluble in fatty and essential oils.
3.	Relative density	About 0.960
4.	Drop point	61°-66°C
5.	Acid value	17.0 - 24.0
6.	Ester value	70 - 80
7.	Saponification value	87 - 104
8.	Ceresin, paraffin & other waxes	Solution may be opalescent & no precipitate before the temperature reaches 65°C
9.	Glycerol & other polyols	Any violet blue color of sample solution is not more intense than the standard solution

03

# **YELLOW BEES WAX**

#### INCI Name: Cera alba

The Honey Bee, Apis Mellifera, Secretes Beeswax to build the walls of the honeycomb. Secreted Wax is a transparent colorless liquid, which turns into a semi-solid substance on contact with the atmosphere. Beeswax is purified from its raw state by freeing it of solid impurities by melting and centrifugation.

#### **Applications:**

**Pharmaceutical, Cosmetic & Coating**: Tablet Coating, Bone treatment, Ointments, Creams, Lotions, Lipsticks, Skin Care, Lip Balm, Confectionery, Shoe Polishes, Candle, etc.

### **Specification of Yellow Bees Wax - IP**

Sr. No	Tests	Specification
501.00	Description	Yellow or light brown color pastilles or slab and faint and characteristic odor
2.	Solubility	Practically insoluble in water, partially soluble in hot ethanol and completely
		soluble in fatty and essential oils.
3.	Melting range	61° to 65°C
4.	Acid value	5 to 15
5.00	Ester value	75 to 95
6.	Saponification value	87 to 104
<b>()</b> 7.00	Ceresin, paraffin & other waxes	Solution may be opalescent & no precipitate before the temperature reaches 65°C
8.	Glycerin & other polyhydric alcohol	Any bluish violet color of solution A is not more intense than that solution B
9.	Ratio number	5 to 19
10.	Fats, Fatty acids, japan wax and resin	No precipitate is produced

### **Specification of Yellow Bees Wax - BP**

Sr. No	Tests	Specification
(0,0)	Description	Yellowish or light brown color pastilles or slab and faint and characteristic odor
2.	Solubility	Practically insoluble in water, partially soluble in hot ethanol (90 per cent V/V)
		and completely soluble in fatty and essential oils.
3.	Relative density	About 0.960
<b>004.0</b> 0	Melting range / Drop point	61° to 66°C
5.	Acid value	17.0 to 22.0
6.00	Ester value	70 to 80
7.	Saponification value	87 to 102
<mark>008.00</mark>	Ceresin, paraffin & other waxes	Solution may be opalescent & no precipitate before the temperature reaches 65°C
9.	Glycerin & other polyhydric alcohol	Any bluish violet color of sample solution is not more intense than the standard solution

04

# **YELLOW BEES WAX**

#### INCI Name: Cera alba

The Honey Bee, Apis Mellifera, Secretes Beeswax to build the walls of the honeycomb. Secreted Wax is a transparent colorless liquid, which turns into a semi-solid substance on contact with the atmosphere. Beeswax is purified from its raw state by freeing it of solid impurities by melting and centrifugation.

#### **Applications:**

**Pharmaceutical, Cosmetic & Coating**: Tablet Coating, Bone treatment, Ointments, Creams, Lotions, Lipsticks, Skin Care, Lip Balm, Confectionery, Shoe Polishes, Candle, etc.

### **Specification of Yellow Bees Wax - USP**

Sr. No	Tests		Specification
55166	Description	6666	Yellow to grayish brown color pastilles or slab and faint and characteristic odor
2.	Solubility Solubility	2222	Sparingly soluble in cold alcohol, insoluble in water, soluble in chloroform, in ether.
			partially soluble in cold benzene
3.00	Melting range	xqqqx	62° to 65°C
4.	Acid value	6666	17 to 24
5.00	Ester value	$\phi \phi \phi \phi$	72 to 79
6.	Saponification cloud tes	ticicic	The solution shows no cloudiness or globule formation before the temperature
$\phi\phi\phi\phi$	$\phi$	addar Addar	reaches 65°C
7.	Fats or Fatty Acids,	Analysis 1.	The wax separates, leaving the liquid clear, turbid, or translucent, but not opaque.
$\dot{x}\dot{x}\dot{x}\dot{x}\dot{x}$	japan wax,	Analysis 2.	The liquid remains clear or shows NMT a slight amount of turbidity or precipitate.
63662	Rosin and soap	23232	

### **Specification of Yellow Bees Wax - EP**

Sr. No	Tests	Specification
1.	Description	Yellowish or light brown color pastilles or slab and faint and characteristic odor
2.	Solubility	Practically insoluble in water, partially soluble in hot ethanol (90 per cent V/V) and
		completely soluble in fatty and essential oils.
3.	Relative density	About 0.960
4.	Drop point	61° - 66°C
5.	Acid value	17.0 - 22.0
6.	Ester value	70 - 80
7.	Saponification value	87 - 102
8.	Ceresin, paraffin & other waxes	Solution may be opalescent & no precipitate before the temperature reaches 65°C
9.	Glycerin & other polyhydric alcohol	Any bluish violet color of sample solution is not more intense than the standard solution

05

# **CARNAUBA WAX**

### INCI Name: Copernicia Cerifera

CAS: 8015-86-9

Carnauba Wax is a vegetable wax obtained from the leaves of a Brazilian palm tree (Copernicia Cerifera) known as the "Tree of Life." Carnauba Wax is the hardest natural wax available. Carnauba Wax has the ability to retain oil and has excellent gloss properties.

### **Applications:**

Pharmaceuticals, Cosmetics & Coating : Tablet Coating, Lipsticks, Mascara, Lip Gloss, Shoe Polishes, Furniture, Fruit, Candy, Wood Polishes, etc.

### **Specification of Carnauba Wax - IP**

Sr. No	Tests	Specification
¢¢1,¢;	Description	Pale Yellow, Red or Light Brown hard masses, Pastilles, Lumps or Powder
2.	Solubility	Soluble in warming chloroform, in ethyl acetate and in xylene,
		Practically insoluble in water and in ethanol (95%)
<b>3.</b>	Identification	Examine by Thin layer chromatography
4.	Melting range	78° to 88°C
5.	Heavy Metals	40 ppm
<b>6.</b> 0	Acid value	NMT 12.0
7.	Saponification value	78 to 95
8.	Sulphated Ash	NMT 0.25%

### **Specification of Carnauba Wax - BP**

Sr. No	Tests	Specification
21.00	Description	Pale yellow or yellow hard masses, Pastilles, Lumps or Powder
2.	Solubility	Soluble in warming chloroform, in ethyl acetate and in xylene,
93933		Practically insoluble in water and in ethanol (96%)
3.	Identification	Examine by Thin layer chromatography
<u> </u>	Relative Density	About 0.97
5.	Melting range	80° to 88°C
6.	Acid value	2 to 7
<b>007.0</b> 0	Saponification value	78 to 95
8.	Total Ash	NMT 0.25%

# **CARNAUBA WAX**

#### INCI Name: Copernicia Cerifera

CAS: 8015-86-9

Carnauba Wax is a vegetable wax obtained from the leaves of a Brazilian palm tree (Copernicia Cerifera) known as the "Tree of Life." Carnauba Wax is the hardest natural wax available. Carnauba Wax has the ability to retain oil and has excellent gloss properties.

### **Applications:**

**Pharmaceuticals, Cosmetics & Coating :** Tablet Coating, Lipsticks, Mascara, Lip Gloss, Shoe Polishes, Furniture, Fruit, Candy, Wood Polishes, etc.

### **Specification of Carnauba Wax - USP**

Sr. No	Tests	Specification
6363	Description	Pale Yellow to Light Brown, Pastilles, Lumps or Powder
2.	Solubility	Soluble in warming chloroform, in warm toluene, slightly soluble in boiling
53355		alcohol, insoluble in water
3.	Identification	Examine by Infrared Absorption
<b>004.00</b>	Residue on Ignition	The weight of the residue is NMT 5mg, corresponding to NMT 0.25%
5.	Heavy Metals	20 ppm
6.	Melting range	80° to 86°C
<b>667.0</b> 0	Acid value	2 to 7
8.	Saponification value	78 to 95

### **Specification of Carnauba Wax - EP**

~~~	~~~~~	
Sr. No	Tests	Specification
1.	Description	Pale yellow or yellow powder, flakes or hard masses
2.	Solubility	Practically insoluble in water, soluble on heating in ethyl acetate and in xylene, practically
φģ		insoluble in alcohol
3.	Identification	Examine by Thin layer chromatography
4.	Appearance of solution	The solution is clear and not more intensely coloured than a 50 mg/L solution of
δģ		potassium dichromate R
5.	Melting range	80°-88°C
6.	Acid value	2 - 7
7.	Saponification value	78 - 95
8.	Total Ash	NMT 0.25%
9.	Relative Density	About 0.97

# **CANDELILLA WAX**

CAS: 8006-44-8

CAS: 8002-31-1

### INCI Name: Euphorbia cerifera

Candelilla Wax is a plant based wax, derived from the leaves of the small candelilla shrub native to northern Mexico and the southwestern United States. The wax is obtained from the above-ground parts of the plant. The plant is dried, boiled in water to separate the wax and the plant material and the wax is then skimmed off by decanting.

Applications: Pharmaceutical & Cosmetic : Tablet Coating, Lipsticks, Lip Balm, Sunscreens, Eye Mascara, Kajal, etc.

	Specification of Candelilla Wax - USP				
Sr. No	No Tests		Specification		
$\langle 0,1,0,1\rangle$	Description	$\dot{\alpha}$	Yellowish, brown, opaque to translucent, pastilles or slabs		
2.	Solubility	2022	Soluble in warming chloroform, in toluene, insoluble in water		
3.	Identification	A. Test	Examine by Infrared Absorption		
33333		B. Test	Complies melting range		
<b>4</b> .	Melting range		68.5° to 72.5°C		
5.	Limit of Lead		NMT 3 μg/g		
6.	Heavy Metals		NMT 20 μg/g		
7.	Acid value		12 to 22		
8.	Saponification value		43 to 65		

### COCOA BUITER

INCI Name: Theobroma Cacao Seed Butter

### **Applications:**

Pharmaceutical & Cosmetic : Pharmaceuticals Ointment & Creams, Lotion, Moisturising Cream, Skin Care, Lip Balm, etc.

	Specification of Cocoa Butter - USP			
Sr. No	Tests	Specification		
(1.)	Appearance	Yellowish-white solid, having a faint, agreeable odor, and a bland, chocolate-like taste if the		
ŶŶ		cocoa butter is obtained by pressing. If obtained by extraction, the taste is bland. Is usually		
		brittle at temperatures below 25°.		
2.	Solubility	Freely soluble in ether and in chloroform; soluble in boiling dehydrated alcohol; slightly		
φ		soluble in alcohol.		
3.	Fatty Acid Composition	Comply by GC		
4.	Melting Point	31° – 35 °C		
5.	Refractive index (At 40 °C)	1.454 – 1.459		
6.	Free Fatty Acids	NMT 5.0 mL of 0.10 N sodium hydroxide.		
7.	lodine value	33 – 42		
8.	Saponification value	188 – 198		

## **EMULSIFYING WAX**

INCI Name: Cetearyl Alcohol (and) Polysorbate 60 or Emulsifying Wax

Emulsifying Wax is an ideal medium for the blending of fine creams, lotions and other fluid cosmetics which contain oil and water. An-Ionic Emulsifying Wax is most suitable in water in oil type of emulsion, whereas the Non-Ionic grade is most suitable in oil in water type of emulsion. The ability of Emulsifying Wax to bind oil and water in perfect union is unparalleled, and today it remains the most ubiquitous substance in a cosmetic manufacturers' formulary. Emulsifying Wax assists in improving the consistency and texture of final products without leaving a greasy film on the outer skin after application. It is a white waxy solid with a low fatty alcohol odour.

### Applications:

Pharmaceutical & Cosmetic : Ointments, Cream, Lotions, Pomades, Sunscreens, Skin Protection, Balm, Body Lotion, etc.

Specification of Emulsifying Wax An Ionic - IP			
Sr. No	Tests	Specification	
1.	Description	White or pale yellow pastilles / slab, and faint and characteristic odor	
2.	Solubility	Partly soluble in ethanol (95%), practically insoluble in water, forming an emulsion	
3.	Identification	Unsaponifiable matter melts at about 52°C	
4.	Acidity	NMT 1.0ml 0.1M NaOH is required	
5.	Alkalinity	On the addition of 0.5ml of phenolphthalein produce no color.	
6.	lodine value	NMT 3.0	
7.00	Saponification value	NMT 2.0	
8.	Unsaponifiable matter	NLT 86%	
9.	Alcohol	Between 12.8 to 14.2 ml	
10.	Sodium alkyl sulphate	NLT 8.7%	
<u></u> 11.	Water	NMT 4%	

# Specification of Emulsifying Wax An Ionic - BP

	-		
Sr. No	lests		Specification
CÓDÇÔ	Description	$\phi\phi\phi\phi$	White or pale yellow pastilles / slab, waxy solid or flakes becoming plastic when warmed
2.	Solubility		Practically insoluble in water, foaming an emulsion, Partly soluble in ethanol (96%)
3.	Identification	A. Test	Melting point of the residue obtained in the test for Unsaponifiable matter, about 52°C
		B. Test	Complies Sulfated ash test
4.00	Acidity		NMT 1 ml of 0.1M sodium hydroxide is required
5.00	Alkalinity	xxxxx	No colour is produce on the addition of 0.5ml of phenolphthalein solution
6.	Alcohols	<u>munu</u>	The difference between the titrations is 12.8 to 14.2 ml
7.	lodine value		NMT 3.0
8.	Saponification value		NMT 2.0
9.00	Sodium alkyl sulfates		NLT 8.7%
10.	Sulfated ash		1.8 to 3.3%
<mark>~11.</mark> ~	Unsaponifiable matter		NLT 86%
12.	Water		NMT 4.0%

09

CAS: 67762-27-0

# **EMULSIFYING WAX**

CAS: 67762-27-0

INCI Name: Cetearyl Alcohol (and) Polysorbate 60 or Emulsifying Wax NF

Emulsifying wax is an ideal medium for the blending of fine creams, lotions and other fluid cosmetics which contain oil and water. An-Ionic Emulsifying Wax is most suitable in water in oil type of emulsion, whereas the Non-Ionic grade is most suitable in oil in water type of emulsion. The ability of Emulsifying Wax to bind oil and water in perfect union is unparalleled, and today it remains the most ubiquitous substance in a cosmetic manufacturers' formulary. Emulsifying wax assists in improving the consistency and texture of final products without leaving a greasy film on the outer skin after application.

Applications: Pharmaceutical & Cosmetic : Ointments, Cream, Lotions, Shampoos, Pomades, Sunscreens, Skin Protection, Balm, Body Lotion, Baby Lotion, etc.

		_	
Sr. No	Tests		Specification
001.00	Description		White or almost white pastilles/slab, waxy solid or flakes melting when heated to
55555		2222	clear almost colourless liquid.
2.	Identification	A	Increase at a temperature not exceeding 450°C until free from carbon and cool.
			The residue is negligible.
		B.	Complies with the test for sulfated ash.
3.	Solubility	3332	Practically insoluble in water, producing an emulsion, moderately soluble in ethanol
			(96%), partly soluble in ether.
4.	Refractive index	888	At 60°C, 1.435 to 1.439
5.	Solidifying point	¢¢¢¢	45°C to 53°C
6.	Acid value	9993	NMT 0.5
<b>&gt;&gt;7.</b> >>	Alkalinity	1000	NMT 0.5ml of 0.1M hydrochloric acid is required for neutralization.
8.	Hydroxyl value	$\frac{1}{100}$	175 to 192
9.	Saponification value		NMT 2.0
10.	Sulfated ash		NMT 0.1%
		Specifi	cation of Emulsifying Wax Non-Ionic - USP
Sr. No	Tests		Specification
<b>201.</b> 00	Description		Creamy white pastilles / slab, wax like solid, having mild characteristic odor
2.	Solubility		Freely soluble in ether, in chloroform, in most hydrocarbon solvents, and in aerosol
			propellants, soluble in alcohol, insoluble in water
3.	Melting Range		50°C to 54°C
4.	ррисссорос		5.5 to 7.0
5.	Hydroxyl value		178 to 192
6.	lodine		NMT 3.5
7.00	Saponification v	alue	NMT 14

10

### **Specification of Emulsifying Wax Non-Ionic - BP**

### **EMULSIFYING WAX**

INCI Name: Stearyl Alcohol (and) Ceteareth 20 or Emulsifying Wax

Emulsifying Wax is an ideal medium for the blending of fine creams, lotions and other fluid cosmetics which contain oil and water. An-Ionic Emulsifying Wax is most suitable in water in oil type of emulsion, whereas the Non-Ionic grade is most suitable in oil in water type of emulsion.

Applications: Pharmaceutical & Cosmetic : Ointments, Cream, Lotions, Pomades, Skin Protection, Balm, Body Lotion, etc.

### **Specification of Emulsifying Wax (Stearyl Alcohol and Ceteareth-20)**

Sr. No	Tests	Specification
50100	Description	White or almost white pastilles or slab, waxy solid. has faint characteristic odour free
		from foreign matters. when heated to clear almost colourless liquid.
2.	Solubility	Practically insoluble in water, foaming and an emulsion, soluble in ethanol (95%),
$\chi \chi \chi \chi \chi$		chloroform, ether and on warming in fixed oils and mineral oils.
3.	IR spectrum	Confirm with reference spectrum
4.	Melting range	53°C to 60°C
5.	Acid value	NMT 1
6.	lodine value	NMT 2
7.	Hydroxyl value	150 to 170
8.	Saponification value	NMT 2.0
9.	Moisture	NMT 0.5 %
10.	Residue on ignition	NMT 0.1%

# **GLYCERYL MONOSTEARATE**

### INCI Name: Glyceryl Mono Stearate

### CAS: 31566-31-1

Applications: Pharmaceutical & Cosmetic : Hair Products, Pharmaceutical, Food Additive, Thickener, Emulsifier, Preservative, Anti-Caking Agent, etc.

	Specification of Glyceryl Monostearate - IP				
Sr. No	Tests		Specification		
1.	<b>Description</b>		White or almost white, hard waxy mass or unctuous powder or flakes.		
2.	Identification	A	Lachrymatory fumes are evolved.		
ddddd	dabbaa		Residue melts at 54°C to 64°C		
3.	Solubility		Freely soluble in chloroform, soluble in ether, in benzene and in ethanol		
$\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}$	$\phi\phi\phi\phi\phi$		(95%), practically insoluble in water.		
4.	Acid value		NMT 5		
5.	Saponificatio	n value	155 to 170		
6.	Sulfated ash		NMT 0.1%		
7.	lodine value		NMT 5		
8.	Water		NMT 2%		
9.	Assay	Monoglycerides Calculated as	NLT 35%		
55556		Glyceryl monostearopalmitate			
hànhàn	titititi	Free glycerin	NMT 7%		

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CAS: 67762-27-0

# **GLYCERYL MONOSTEARATE**

INCI Name: Glyceryl Mono Stearate

CAS: 31566-31-1

Glyceryl Stearate acts as a lubricant on the skin's surface, which gives the skin a soft and smooth appearance. Applications: Pharmaceutical & Cosmetic : Hair Products, Food Additive, Thickener, Emulsifier, Anti-Caking Agent, etc.

### Specification of Glycerol Monostearate 40-55 - EP

Sr. No	Tests	Specification	
1.	Description	Hard, waxy mass or unctuous powder or flakes, white or almost white.	
2.	Solubility	Practically insoluble in water, soluble in ethanol (96 per cent) at 60 °C.	
3.	Relative density	About 0.960	
4.	Melting point	54 °C to 66 °C	
5.	Thin-layer chromatography	The spots in the chromatogram obtained with the test solution are similar in position to	
$\infty$	****************	those in the chromatogram obtained with the reference solution.	
6.	Acid value	NMT 3.0	
7.	Iodine Value	NMT 3.0	
8.	Saponification value	158 – 177	
9.	Free glycerol	NMT 6.0 %	
10.	Composition of fatty acids	1. Type I Stearic acid: 40.0 per cent to 60.0 per cent Sum of the contents of palmitic and	
bàč		stearic acids: minimum 90.0 per cent	
55C		2. Type II Stearic acid: 60.0 per cent to 80.0 per cent Sum of the contents of palmitic and	
222	*****************	stearic acids: minimum 90.0 per cent	
		3. Type III Stearic acid: 80.0 per cent to 99.0 per cent Sum of the contents of palmitic and	
552		stearic acids: minimum 96.0 per cent	
11.	Nickel	NMT 1 ppm	
12.	Water	NMT 1.0 %	
13.	Total ash	NMT 0.1 %	
14.	Assay	1. monoacylglycerols: 40.0 per cent to 55.0 per cent; 2. diacylglycerols: 30.0 per cent to	
555		45.0 per cent; 3. triacylglycerols: 5.0 per cent to 15.0 per cent.	

# Specification of Glyceryl Monostearate (Self-emulsifying) - BP

Sr. No	Tests		Specification
<b>1.</b>	<b>Description</b>		White to cream colour, hard, waxy, solid flakes and powder
2.	Solubility		Soluble in hot alcohol, in hot liquid paraffin, dispersible in hot water.
3.	Acid value		NMT 6
4.	Alkanity		pH of the aqueous layer is 8.0 to 10.0
5.	Sulfated ash		NMT 0.1%
6.	lodine value		NMT 3
7.00	Water		NMT 2%
8.	Assay	Monoglycerides Calculated	NLT 30%
ççççç	φορορι	as $C_{21}H_{42}O_4$	000000000000000000000000000000000000000
QQQQQ	$\alpha \alpha \alpha \alpha \alpha$	Free glycerol	NMT 7%
		Soap calculated as sodium oleate	NMT 6%

# HARD PARAFFIN WAX

### INCI Name: Paraffin

CAS: 8002-74-2

Paraffin Wax is colorless or white, somewhat translucent, hard wax consisting of a mixture of solid straight-chain hydrocarbons. Paraffin wax is obtained from petroleum by dewaxing light lubricating oil stocks. Paraffin Wax is classified according to oil content, melting point, and the amount of processing put in.

#### **Applications:**

Pharmaceutical & Cosmetic : Ointment, Cream, Lotion, Candle, Crayons, Wax bath for beauty and therapy purposes, etc.

### **Specification of Hard Paraffin Wax - IP**

Sr. No	Tests	Specification
1.	Description White slab or pastilles, frequently showing a crystalline structure slightly	
dood		greasy to the touch. odourless even freshly cut.
2.	Solubility Practically insoluble in water, freely soluble in methylene chloride pra	
2222		insoluble in ethanol (96%)
3.	Congealing range	50°C to 65°C
4.00	Sulphated ash	NMT 0.1%
5.	Acidity or alkalinity	NMT 0.1 ml of 0.1 M sodium hydroxide is required.

## **Specification of Hard Paraffin Wax - BP**

Sr. No	Tests		Specification
50 <b>1</b> 00	Description		White or almost white slab or pastilles, the melted substance is free from
2222			fluorescence in daylight
2.	Solubility	22222	Practically insoluble in water, freely soluble in methylene chloride practically
5000			insoluble in ethanol (96%)
3.	<b>Identification</b>	B. Test	Compiles Acidity or Alkalinity
19993		C. Test	Compiles Melting point
4.	Melting point		50°C to 61°C
5.	Polycyclic arom	natic	The absorbance of the test solution is not greater than one-third that of the
	hydrocarbon		reference solution at 278 nm
6.	Sulfates		NMT 150 ppm
<b></b>	Acidity or	A.Acidity	NMT 1.0 ml of 0.01 M sodium hydroxide is required to change color
	alkalinity	<b>B.Alkalinity</b>	NMT 0.5 ml of 0.01 M hydrochloric acid is required to change color

# HARD PARAFFIN WAX

INDIA

### **INCI Name: Paraffin**

Paraffin Wax is colorless or white, somewhat translucent, hard wax consisting of a mixture of solid straight-chain hydrocarbons. Paraffin wax is obtained from petroleum by dewaxing light lubricating oil stocks. Paraffin Wax is classified according to oil content, melting point, and the amount of processing put in.

Applications: Pharmaceutical & Cosmetic : Ointment, Cream, Candle, Crayons, Wax bath for beauty and therapy, etc.

Sr. No	Tests		Specification
0.1.0	Description	ççççç	White or colorless slab or pastilles, frequently showing a crystalline
9993			structure slightly greasy to the touch.
2.	Solubility	<u>kádád</u>	Practically insoluble in water, freely soluble in chloroform, in ether slightly
pppq		10000	soluble in dehydrated alcohol, insoluble in water
3.	Identification	A. Test	Examine by Infrared Absorption
dddd	¢¢¢¢¢¢¢¢¢¢¢¢¢	B. Test	Complies Congealing range test
<b>4</b> ,	Sulfur compound		No dark brown color develops
5.	Polycyclic aromat	ic	The absorbance at any wavelength in the specified range is not greater than
	hydrocarbons		one-third that of the reference solution at 278 nm
6.00	Congealing range		47°C to 65°C
7.	Acidity		NMT 1.0 ml of 0.01 M sodium hydroxide is required.
8.	Alkalinity		NMT 0.5 ml of 0.01 M hydrochloric acid is required.
9.	Readily Carbonizable		The color of the emulsion is not darker than that of the standard solution
93333	Substance	99999	when shaken vigorously

### **Specification of Hard Paraffin Wax - USP**

### **Specification of Hard Paraffin Wax - EP**

Sr. No	Tests		Specification
1.	Description		White or almost white slab or pastilles, the melted substance is free from fluorescent in
			daylight
2.	Solubility	$\dot{\phi}$	Practically insoluble in water, freely soluble in methylene chloride practically insoluble in
¢φ		φαράφαρα	ethanol (96%)
3.	Identification	B. Test	Compiles Acidity or alkalinity
	dddddd	C. Test	Compiles Melting point
4.	Melting point		50°C to 61°C
5.	Polycyclic aromati	ic hydrocarbon	The absorbance of the test solution is not greater than one-third that of the reference
$\mathbf{b}$			solution at 278 nm
6.	Sulfates		NMT 150 ppm
7.	Acidity or	A. Acidity	NMT 1.0 ml of 0.01 M sodium hydroxide is required to change color
22	alkalinity	B. Alkalinity	NMT 0.5 ml of 0.01 M hydrochloric acid is required to change color

# LIQUID PARAFFIN

### INCI Name: Praffinum Liquidum (Light Mineral Oil)

Liquid Paraffin Oil used as a blending base for Pharmaceutical and Cosmetic Products such as creams, lotions, hair oils, petroleum jelly, ointments.

Specification of Liquid Paraffin - IP

### Applications: Pharmaceutical & Cosmetic : Ointment, Cream, Lotion, Hair Oils, Perfumery Baby Oil, Baby Cream, etc.

Sr. No	Tests	Specification		
d. 1	Description	A transparent, colourless, oily liquid, free from fluorescence in daylight, odourless.		
2.	Solubility Contract C	Soluble in chloroform, in ether and in light petroleum (40° to 60°), practically		
$\phi\phi\phi\phi$		insoluble in water and in ethanol (95 per cent). Miscible with fixed and volatile oils.		
3.	Weight per ml	0.860 g to 0.904 g.		
4.	Acidity or alkalinity	NMT 0.1 ml of 0.1 M sodium hydroxide is required to change the colour of the		
5000		indicator to pink		
5.	Light absorption	Absorption is NMT 0.1		
6.	Viscosity	110 mPas. to 230 mPas.		
7.	Readily carbonisable	The lower acid layer is not more intensely colored than a mixture of 3ml of FCS,		
cócó:	substance substance	1.5 ml of CCS and 0.5 ml of CSS.		
8.	Solid paraffins	The liquid is sufficiently clear that a black line, 0.5 mm in width, held vertically		
5333		behind the vessel is easily seen.		
9.00	Sulphur compound	The mixture remains colourless.		

### **Specification of Liquid Paraffin - BP**

Sr. No	Tests		Specification
x:1.00	Description		Colourless, transparent, oily liquid, free from fluorescence in daylight
2.	Solubility	<u>bbbb</u>	Practically insoluble in water, slightly soluble in ethanol (96 per cent),
			miscible with hydrocarbons.
3.	Identification	B. Test	To the aqueous phase add 0.1 ml of phenolphthalein solution R.
$\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}$		$\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}$	The solution became red.
qqqq		C. Test	Complies Viscosity test
4.	Acidity or alkalinity		NMT 0.1 ml of 0.1 M sodium hydroxide is required to change the
			colour of the indicator to pink
5.	Relative density		0.827 to 0.890
6.	Viscosity		110 mPa·s. to 230 mPa·s.
7.	Polycyclic aromatic hydrocarbon		The absorbance of the test solution exceed one-third that of the
dddd:			reference solution at 275 nm
8.	Readily carbonisable substance		The lower layer is not more intensely colored than a mixture of
			primary solution
9.	Solid paraffins	iddddd	To be easily seen against a white background

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# **LIQUID PARAFFIN**

INCI Name: Praffinum Liquidum (Light Mineral Oil)

#### CAS: 8012-95-1/8042-47-5

Liquid Paraffin used as a blending base for Pharmaceutical & Cosmetic Products such as creams, lotions, hair oils, ointments.

#### Applications: Pharmaceutical & Cosmetic : Ointment, Cream, Lotion, Hair Oils, Perfumery Baby Oil, Baby Cream, etc.

#### **Specification of Mineral Oil - USP** Sr. No Tests **Specification** Description Colorless, tasteless not more than a faint odor of petroleum when heated. 1. 2. Solubility Insoluble in water and in alcohol; soluble in volatile oils. Miscible with most fixed oils, but not with castor oil. 3. Identification Α. Infrared Absorption. Β. It meets the requirements in specific test for viscosity. Limit of polycyclic aromatic The absorption at any wavelength in the specific range of the sample solution is NMT 4. hydrocarbons one-third of the absorbance of the standard. 5. Specific gravity 0.845 to 0.905 34.4 - 150 mm<sup>2</sup>/ S<sup>-1</sup>at 40° C 6. Viscosity NMT 1.0 mL of 0.01 N sodium hydroxide is required to produce pink color. 7. Acidity The acid portion of sample solution does not become darker than the standard solution. 8. Readily carbonisable substance Solid paraffins. The liquid is sufficiently clear that a black line, 0.5 mm in width, held vertically behind the 9. vessel is easily seen. Sulphur compound No dark brown color develops. 10.

### **Specification of Liquid Paraffin - EP**

Sr. No	Tests		Specification
1.	Description		colourless, transparent, oily liquid, free from fluorescence in daylight.
2.	Solubility	99999999	Practically insoluble in water, slightly soluble in ethanol (96%), miscible with hydrocarbons.
3.	Identification	B. Test	The solution becomes red
φQ		C. Test	Viscosity
4.	Acidity or alkalinit	y	Not more than 0.1 mL of 0.1 M sodium hydroxide is required to change the colour of the
523			indicator to pink.
5.	Relative density		0.827 to 0.890
6.	Viscosity		110 mPa·s to 230 mPa·s
7.	Polycyclic aromatic hydrocarbons		At no wavelength between 260 nm and 420 nm does the absorbance of the test solution
			exceed one-third that of the reference solution at 275 nm
8.	Readily carbonisable substances		The lower layer is not more intensely coloured (2.2.2, Method I) than a mixture of 0.5 mL
¢Φ			of blue primary solution, 1.5 mL of red primary solution, 3.0 mL of yellow primary solution
¢φ	100000000000000000		and 2 mL of a 10 g/L solution of hydrochloric acid R.
9.	Solid paraffins		The liquid is sufficiently clear for a black line, 0.5 mm wide, to be easily seen against a
			white background held vertically behind the tube.

# LIGHT LIQUID PARAFFIN

INCI Name: Praffinum Liquidum (Light Mineral Oil)

Applications: Pharmaceutical & Cosmetic : Ointment, Cream, Lotion, Hair Oils, Perfumery Baby Oil, Baby Cream, Protective coating for Fruits and Vegetables, Hair Cream Mosquito repellent cream etc.

### **Specification of Light Liquid Paraffin - IP**

Sr. No	Tests	Specification
	Description	Colorless, transparent, oily liquid, free from fluorescence in daylight
2.00	Solubility	Practically insoluble in water, slightly soluble in ethanol (96 per cent),
CCCCC		miscible with hydrocarbons.
3. 0	Weight per ml	0.820 g to 0.880 g.
4.	Acidity or alkalinity	NMT 0.1 ml of 0.1 M sodium hydroxide is required to change the colour of
3333		the indicator to pink
<b>5.</b> 00	Light absorption	Absorption is NMT 0.1
6.	Viscosity	25 mPas. to 80 mPas.
<b></b>	Readily carbonisable	The lower acid layer is not more intensely colored than a mixture of 3ml of
$\chi \chi \chi \chi$	substance	FCS, 1.5 ml of CCS and 0.5 ml of CSS.
8.	Solid paraffins	The liquid is sufficiently clear that a black line, 0.5 mm in width, held vertically
ccop;		behind the vessel is easily seen.
9.	Sulphur compound	The mixture remains colorless.

### **Specification of Light Liquid Paraffin - BP**

Sr. No	Tests		Specification
1.	Description		Colourless, transparent, oily liquid, free from fluorescence in daylight
2.	Solubility	ά¢φ	Practically insoluble in water, slightly soluble in ethanol (96 per cent),
$\phi\phi\phi$		$\Omega \Omega$	miscible with hydrocarbons.
3.	Identification	B. Test	To the aqueous phase add 0.1 ml of phenolphthalein solution R. The solution became red.
1000		C. Test	Complies Viscosity test
4.	Acidity or alka	linity	NMT 0.1 ml of 0.1 M sodium hydroxide is required to change
doodd			the colour of the indicator to pink
5.	Relative density		0.810 to 0.875
6.	Viscosity		25 mPa·s. to 80 mPa·s.
7.0	Polycyclic aromatic		The absorbance of the test solution exceed one-third that of the reference
1000	hydrocarbon		solution at 275 nm
8.	Readily carbonisable		The lower layer is not more intensely coloured than a mixture of
QQQQQ	substance	$\overline{\Omega}$	primary solution
9.	Solid paraffins		To be easily seen against a white background

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# LIGHT LIQUID PARAFFIN

INCI Name: Praffinum Liquidum (Light Mineral Oil)

Applications: Pharmaceutical & Cosmetic : Ointment, Cream, Lotion, Hair Oils, Baby Oil & Cream, etc.

# Specification of Light Mineral Oil - USP (Light Liquid Paraffin)

Sr. No	Tests		Specification
1.	Description		Colorless, transparent, oily liquid, free, or practically free, from fluorescence. Is odorless
		$\phi\phi\phi$	and tasteless when cold, and develops not more than a faint odor of petroleum when heated.
2.	Solubility		Insoluble in water and in alcohol; soluble in volatile oils. Miscible with most fixed oils, but
άà		2222	not with castor oil.
3.	Identification	A.	Infrared Absorption.
$\phi \phi$		B.	It meets the requirements in specific test for viscosity.
4.	Limit of polycyclic aromatic		The absorption at any wavelength in the specific range of the sample solution is NMT
	hydrocarbons	10000	one-third of the absorbance of the standard.
5.	Specific gravity		0.818 to 0.880
6.	Viscosity		3.0 – 34.4 mm <sup>2</sup> / S <sup>-1</sup> at 40° C
7.	Acidity		NMT 1.0 mL of 0.01 N sodium hydroxide is required to produce pink color.
8.	Readily carbonisable substance		The acid portion of sample solution does not become darker than the standard solution.
9.	Solid paraffins.	çççç	The liquid is sufficiently clear that a black line, 0.5 mm in width, held vertically behind the
φq			vessel is easily seen.
10.	Sulphur compound		No dark brown color develops.
		Spec	ification of Light Liquid Paraffin - EP
Sr. No	Tests		Specification

<b>SL INO</b>	Tests		Specification
1.	Description		Colourless, transparent, oily liquid, free from fluorescence in daylight.
2.	Solubility		Practically insoluble in water, slightly soluble in ethanol (96%), miscible with hydrocarbons.
3.	Identification	B. Test	The solution becomes red
¢¢	tatatata	C. Test	Viscosity
4.	Acidity or alkalinit		Not more than 0.1 mL of 0.1 M sodium hydroxide is required to change the colour of the
Ω.			indicator to pink.
5.	Relative density		0.810 to 0.875
6.	Viscosity		25 mPa·s to 80 mPa·s
7.	Polycyclic aromatic hydrocarbons		At no wavelength between 260 nm and 420 nm does the absorbance of the test solution
			exceed one-third that of the reference solution at 275 nm
8.	Readily carbonisable substances		The lower layer is not more intensely coloured (2.2.2, Method I) than a mixture of 0.5 mL
¢ά			of blue primary solution, 1.5 mL of red primary solution, 3.0 mL of yellow primary solution
¢ά			and 2 mL of a 10 g/L solution of hydrochloric acid R.
9.	Solid paraffins		The liquid is sufficiently clear for a black line, 0.5 mm wide, to be easily seen against a
			white background held vertically behind the tube.

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# **MICROCRYSTALLINE WAX**

#### INCI Name: Microcrystalline Wax

CAS: 67742-51-2

Microcrystalline Waxes are a type of wax produced by de-oiling petrolatum, as part of the petroleum refining process. They differ from Paraffin Waxes in that they have poorly defined crystalline structure, darker color, and generally higher viscosity and melting points. Microcrystalline Waxes are moisture free and range in color from a white to a brown, depending on the degree of refinement. Highly refined Micros are white. Microcrystalline Waxes are excellent for laminating, coating, or hardening materials.

#### **Applications:**

Pharmaceutical & Cosmetic : Ointment, Personal Care, Candle, Crayon, Ink, Rubber, Cream, Body Lotion, etc.

Specification of Microcrystalline Wax - IP					
anar					
Sr. No	Tests	Specification			
$\sim$ 1 $\circ$	Description	White or cream colored slab or pastilles			
2.	Solubility	Soluble in chloroform, in ether, in volatile oil. Practically insoluble in water			
3.	Acidity or alkalinity	No pink or red color is produced			
4.	Solidifying point	54° to 102°C			
5.	Color	No fluorescence			
<b>6</b> ,	Organic acid	NMT 0.4ml of 0.1M NaOH is require			
<b>507.</b> 00	Fats, fixed oils and resin	No oily or solid matter separates			
8.	Ash	NMT 0.1%			

### **Specification of Microcrystalline Wax USP**

Sr. No	Tests	Specification
<b>3.1</b> .00	Description	White or cream colored slab or pastilles
2.	Solubility	Soluble in chloroform, in ether, in volatile oil, insoluble in water
3.00	Residue on Ignition	It volatilizes without emitting an acrid odor and on ignition yields NMT 0.1%
4.	Acidity	No pink or red color is produced
5.	Alkalinity	The solution does not acquire a pink color
6.	Melting point	54° to 102°C
<b>7.</b>	Consistency	3 to 100 (0.3 to 10.0 mm)
8.00	Color	The sample solution is not darker than the standard solution
9.	Organic acids	NMT 0.4ml of 0.1 N NaOH is require
10.	Fats, fixed oils and resin	No oily or solid matter separates

# WHITE PETROLEUM JELLY

### INCI Name: Petrolatum

CAS: 8009-03-8

Petroleum Jelly, also called Petrolatum is a translucent gelatinous substance obtained from petroleum; used as a lubricant and in medicine as an ointment base and protective dressing. It is an ingredient in many cosmetics and lotions because of its moisturizing properties. Petroleum Jellies are favored by personal care and pharmaceutical companies as very versatile, safe and economical formulation base.

Applications: Pharmaceutical & Cosmetic : Ointment, Cream, Skin & Hair Care, Surface cleansing, Moisturize Cream, etc.

Sr. No	Tests	Specification
5.1.00	Description	White, translucent, soft unctuous mass, slightly fluorescent, even melted.
2.	Solubility	Slightly soluble in methylene chloride, practically insoluble in water and
		ethanol(96 per cent) and in glycerol
3.	Melting range	38° to 56°C
4.	Acidity or alkalinity	NMT 0.1 ml of 0.1M sodium hydroxide is required.
5.	Consistency	100 to 300
6.	Sulphated ash	NMT 0.1%
<b></b>	Light absorption	NMT 0.5 at 290nm
8.	Fixed oils, fats and resin	No precipitate or oily matter is produced.
9.	Foreign organic matter	Volatilizes when heated, without emitting an acrid odor

### **Specification of White Petroleum Jelly - IP**

### **Specification of White Petroleum Jelly - BP**

Sr. No	Tests		Specification
$\mathcal{O}\mathcal{O}\mathcal{O}$	Description	$\phi\phi\phi$	White, translucent, soft unctuous mass, slightly fluorescent, when melted.
2.	Solubility		Slightly soluble in methylene chloride, practically insoluble in water and
			ethanol (96 per cent) and in glycerol
3.	Identification	A. Test	35° to 70°C Melting range / Drop point
,,,,,,,,		C. Test	Melt 2 g of sample, add 2 ml of water and 0.2 ml of 0.05 M iodine, shake,
10000		$\mathcal{D}\mathcal{D}\mathcal{D}$	allow to cool, the solid upper layer is violet-pink or brown
$\chi \chi \chi \eta$	10000000000	D. Test	Complies Appearance Test
4.	Appearance		The substance is white and the melted mass is not more intensely coloured
			than a mixture of 1 volume of yellow primary solution and 9 volumes of
dddd			a 10 g/L solution of hydrochloric acid
5.	Acidity or alkalinity	$\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}$	NMT 0.5 ml of 0.01M sodium hydroxide is required.
6.	Consistency		60 to 300
<b>007.0</b> 0	Polycyclic aromatic		At the no wavelength in the range 260 nm to 420 nm does the absorbance
qqqqq	hydrocarbons		of the test solution exceed that of the reference solution at 278 nm
8.	Sulphated ash		NMT 0.05%

# WHITE PETROLEUM JELLY

INCI Name: Petrolatum

CAS: 8009-03-8

Petroleum Jelly, also called Petrolatum is a translucent gelatinous substance obtained from petroleum; used as a lubricant and ointment base and protective dressing. It is an ingredient in many cosmetics and lotions because of its moisturizing properties.

Applications: Pharmaceutical & Cosmetic : Ointment, Cream, Skin & Hair Care, Surface cleansing, Moisturize Cream, etc.

### **Specification of White Petrolatum - USP**

Sr. No	Tests	Specification
1.	Description	White or faintly yellowish, unctuous mass, transparent in thin layers even after cooling to 0°C
2.	Solubility	Freely soluble in benzene, in carbon disulfide and in chloroform, soluble in ether, in solvent
		hexane and in most fixed and volatile oils, slightly soluble in alcohol, insoluble in water
3.	Residue on ignition	NMT 0.05%
4.	Organic acids	NMT 400 $\mu$ L of 0.1 N sodium hydroxide is required.
<b>CC5</b> , CC	Color	The warm, melted liquid is not darker than standard solution and there is no fluorescence.
<mark>6.6</mark> .	Specific gravity	0.815 to 0.880 at 60°C
7.	Melting range	38°C to 60°C
8.	Consistency	100 to 300
9.	Alkalinity	The solution does not acquire pink color
10.	Acidity	No red or pink color is produced
0011.00	Fix oils, Fats and resin	No oily or solid matter separates

### **Specification of Paraffin White Soft - EP**

Sr. No	Tests		Specification
1.	Description		White, translucent, soft unctuous mass, slightly fluorescent, when melted.
2.	Solubility	0000000000	Slightly soluble in methylene chloride, practically insoluble in water &
			ethanol (96%) & in glycerol
3.	Identification	A. Test	35°-70°C Melting range / Drop point
άģ		C. Test	Melt 2 g of sample, add 2 mL of water and 0.2 mL of 0.05 M iodine, shake, allow to cool,
¢φ	tototot		the solid upper layer is violet-pink or brown
φq	, proper	D. Test	Complies Appearance Test
4.	Appearance		The substance is white and the melted mass is not more intensely coloured than a
났			mixture of 1 volume of yellow primary solution and 9 volumes of a 10 g/L solution of
		000000000	hydrochloric acid
5.	Acidity or alkalinity		Not more than 0.5 ml of 0.01M sodium hydroxide is required.
6.	. Consistency		60-300
7.	Polycyclic aromatic hydrocarbons		At the no wavelength in the range 260 nm to 420 nm does the absorbance of the test
φ¢			solution exceed that of the reference solution at 278 nm
8.	. Sulphated ash		Not more than 0.05%

# **YELLOW PETROLEUM JELLY**

### INCI Name: Petrolatum

CAS: 8009-03-8

Petroleum Jelly, also called Petrolatum is a translucent gelatinous substance obtained from petroleum; used as a lubricant and in medicine as an ointment base and protective dressing. It is an ingredient in many cosmetics and lotions because of its moisturizing properties. Petroleum Jellies are favored by personal care and pharmaceutical companies as very versatile, safe and economical formulation base.

Applications: Pharmaceutical & Cosmetic : Ointment, Cream, Skin Care, Hair Care, Surface cleansing, Lubrication, Moisturize Cream, etc.

	өрссий	cation of renow recroicant ochy - n
Sr. No	Tests	Specification
5.1.5	Description	Pale yellow, translucent, soft unctuous mass, slightly fluorescent, even melted.
2.	Solubility	Slightly soluble in methylene chloride, practically insoluble in water and
XXXX		ethanol(96 per cent) and in glycerol
3.	Melting range	38° to 56° C
<b>() 4. ()</b>	Acidity or alkalinity	NMT 0.1 ml of 0.1M sodium hydroxide is required.
5.	Consistency	100 to 300
6.00	Sulphated ash	NMT 0.1%
7. 0	Light absorption	NMT 0.75 at 290nm
8.	Fixed oils, fats and resin	No precipitate or oily matter is produced.
() (9) () () () () () () () () () () () () ()	Foreign organic matter	Volatilizes when heated, without emitting an acrid odor

### **Specification of Yellow Petroleum Jelly - IP**

### **Specification of Yellow Petroleum Jelly - BP**

Sr. No	Tests		Specification
001.00	Description		Yellow, translucent, unctuous mass, slightly fluorescent, when melted
2.	Solubility	2002	Slightly soluble in methylene chloride, practically insoluble in water and
$\chi \chi \chi \chi \eta$			ethanol (96 per cent) and in glycerol
3.	Identification	A. Test	40° to 60°C Melting range / Drop point
		C. Test	Melt 2 g of sample, add 2 ml of water and 0.2 ml of 0.05 M iodine, shake,
		2000	allow to cool, the solid upper layer is violet-pink or brown
daddd	dependent	D. Test	Complies Appearance Test
4.	Appearance		The substance is yellow and the melted mass is not more intensely coloured
dadad			than a mixture of 7.6 volume of yellow primary solution and 2.4 volumes of
$\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}\dot{c}$	0000000000000	$\phi\phi\phi$	red primary solution
5.	Acidity or alkalinity		NMT 0.5 ml of 0.01M sodium hydroxide is required.
6.	Consistency		100 to 300
7.	Polycyclic aromatic		At the no wavelength in the range 260 nm to 420 nm does the absorbance of
qqqqq	hydrocarbons	pqqq	the test solution exceed that of the reference solution at 278 nm
8.	Sulphated ash		NMT 0.05%

# **YELLOW PETROLEUM JELLY**

### INCI Name: Petrolatum

CAS: 8009-03-8

Petroleum Jelly, also called Petrolatum is a translucent gelatinous substance obtained from petroleum; used as a lubricant and in medicine as an ointment base and protective dressing. It is an ingredient in many cosmetics and lotions because of its moisturizing properties. Petroleum Jellies are favored by personal care and pharmaceutical companies as very versatile, safe and economical formulation base.

Applications: Pharmaceutical & Cosmetic : Ointment, Cream, Skin Care, Hair Care, Surface cleansing, Lubrication, Moisturize Cream, etc.

	Specification of Parafilin fellow Soft - EP			
Sr. No	Tests		Specification	
1.	Description		Yellow, translucent, unctuous mass, slightly fluorescent in daylight, when melted	
2.	Solubility		Slightly soluble in methylene chloride, practically insoluble in water and ethanol (96 per	
뮜			cent) and in glycerol	
3.	Identification	A. Test	40° - 60°C Melting range / Drop point	
άđ		C. Test	Melt 2 g of sample, add 2 mL of water and 0.2 mL of 0.05 M iodine, shake, allow to cool,	
¢φ	100000		the solid upper layer is violet-pink or brown	
99		D. Test	Complies Appearance Test	
4.	. Appearance		The substance is yellow and the melted mass is not more intensely coloured than a	
			mixture of 7.6 volume of yellow primary solution and 2.4 volume of red primary solution	
5.	Acidity or alkalinity		Not more than 0.5 ml of 0.01M sodium hydroxide is required.	
6.	Consistency		100 - 300	
7.	Polycyclic aromatic hydrocarbons		At the no wavelength in the range 260 nm to 420 nm does the absorbance of the test	
			solution exceed that of the reference solution at 278 nm	
8.	Sulphated ash		Not more than 0.05%	

### **SUNFLOWER WAX**

#### INCI Name: Helianthus Annuus Seed Cera

CAS: 1286686-34-7

Applications: Cosmetic: Improves oil binding in sticks; and it contributes to hardness, texture, strength and mold release.

Specification of	Sunflower	Wax	<b>I.H.S</b> .
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Sr. No	Tests	Specification
1.	Description	White or Creamish white slab or pastilles, and characteristic odour.
2.	Solubility	Practically Insoluble in water, Soluble in warm xylene, slightly soluble in alcohol
3.	Melting range	72° to 80°C
4.	Acid value	NMT 10
5.	Saponification value	75 to 145
6.	Moisture content	NMT 0.5%

# **CETOSTEARYL ALCOHOL**

INCI Name: Cetostearyl Alcohol / Cetearyl Alcohol

Applications: Pharmaceutical & Cosmetic : Ointment, Creams & Lotions, Moisturize Cream, Sunscreen, Hair products such as Shampoo, Conditioners, Hair Removal creams, Hair Mousse, Anti-frizz Hair cream & Hair Dye, Surface cleansing & Lubrication. Pharma uses: mainly used in Topical Pharmaceutical formulations.

### **Specification of Cetostearyl Alcohol - IP**

Sr. No	Test	S	Specification
1.	Descrip	otion	A white or pale yellow, wax like mass, plates, flakes or granules.
2.	Solubili	typeople	Freely soluble in ether, soluble in ethanol (95 per cent) and in light petroleum; practically
			insoluble in water. When melted, it is miscible with fixed oils and with liquid paraffin.
3.	Identifi	cation	In the Assay, the two principal peaks in the chromatogram obtained with the test solution
$\infty$			corresponds to the principal peaks in the chromatogram obtained with the reference solution.
4.	Appear	ance of solution	The solution is clear and not more intensely coloured than reference solution BS6
5.	Melting point		47 °C to 56 °C
6.	Acid value		NMT 1.0
7.	. Hydroxyl value		208 to 228
8.	Saponi	fication value	NMT 2.0
9.	Iodine value		NMT 3.0
10.	). Hydrocarbons		NMT 30 mg
11.	Assay	Stearyl Alcohol	NLT: 40 %
99		Cetyl Alcohol	
522	689	Sum of Stearyl Alcohol and Cetyl Alcohol	NLT: 90 %

#### **Specification of Cetostearyl Alcohol - BP** Sr. No Tests **Specification** 1. Description A white or pale yellow, wax like mass, plates, flakes or granules. 2. Practically insoluble in water, soluble in ethanol (96 per cent) and in light petroleum. Solubility When melted, it is miscible with fatty oils, with liquid paraffin and with melted wool fat. 3. Identification In the Assay, the two principal peaks in the chromatogram obtained with the test solution corresponds to the principal peaks in the chromatogram obtained with the reference solution. 4. Appearance of solution The solution is clear and not more intensely coloured than reference solution BS6 49 °C to 56 °C Melting point 5. **NMT 1.0** 6. Acid value 7. Hydroxyl value 208 to 228 Saponification value **NMT 2.0** 8. 9. **lodine value NMT 2.0** 10. Hydrocarbons NMT 30 mg Assay **Stearyl Alcohol** NLT: 40 % 11. Cetyl Alcohol Sum of Stearyl Alcohol and Cetyl Alcohol NLT: 90 %

CAS: 67762-30-5

# **CETOSTEARYL ALCOHOL**

INCI Name: Cetostearyl Alcohol / Cetearyl Alcohol

**Applications: Pharmaceutical & Cosmetic :** Ointment, Creams & Lotions, Moisturize Cream, Sunscreen, Hair products such as Shampoo, Conditioners, Hair Removal creams, Hair Mousse, Anti-frizz Hair cream & Hair Dye, Surface cleansing & Lubrication. Pharma uses: mainly used in Topical Pharmaceutical formulations.

### **Specification of Cetostearyl Alcohol - USP**

Sr. No	Test	S	Specification
1.	Descrip	otion	Unctuous, white flakes, granules, cubes, or castings. Has a faint characteristic odor and
99	333		a bland, mild taste.
2.	Solubili	typequepepe	Soluble in alcohol and in ether; insoluble in water. NF category: Stiffening agent; emollient;
66	222		emulsifying agent; suspending and/or viscosity-increasing agent.
3.	<mark>Identif</mark> i	cation	Chromatographic identity
4.	Residue on ignition		NMT 0.1 %
5.	Limit of related fatty alcohols		Complies (By GC)
6.	Acid value		NMT 2.0
7.	Hydroxyl value		208 to 228
8.	lodine value		NMT 4.0
9.	Water		NMT 0.5 %
10.	Assay	Stearyl Alcohol	NLT: 40 %
¢φ	50X	Sum of Stearyl Alcohol and Cetyl Alcohol	NLT: 90 %

### **Specification of Cetostearyl Alcohol - EP**

Sr. No	Tests		Specification
1.	Description	inconcentration	White coloured, wax-like mass, pastilles, flakes or granules.
2.	Solubility		Practically insoluble in water, soluble in ethanol (96 per cent) and in light petroleum. When
¢φ	boot (		melted, it is miscible with fatty oils, with liquid paraffin and with melted wool fat.
3.	<b>Identifica</b>	ition	Examine the chromatograms obtained in the assay
4.	4. Appearance of solution		The solution is clear and not more intensely coloured than reference solution B6
5.	5. Melting point		49 °C to 56 °C
6.	6. Acid value		NMT 1.0
7.	7. Hydroxyl value		208 to 228
8.	8. Saponification value		NMT 2.0
9.	9. Iodine value		NMT 2.0
10.	Assay S	Stearyl Alcohol	NLT: 40 %
99	S	Sum of Stearyl Alcohol and Cetyl Alcohol	NLT: 90 %

25

CAS: 67762-30-5

# **CETYL ALCOHOL**

### INCI Name: Cetyl Alcohol

CAS: 36653-82-4

**Applications: Pharmaceutical & Cosmetic :** Ointment, Creams, Lotions, Moisturize Cream, Skin care & Hair Care, Shampoos, Surface cleansing & Lubrication. Used as a Thickener in Lipsticks. Acts as an Emulsifier, Emollient, Thickener & an Opacifier in Cosmetic formulations. Pharma uses: This medication is used as a moisturizer to treat/prevent dry, rough, scaly, itchy skin, minor skin irritations such as Diaper Rash, Skin Burns from radiation therapy.

### **Specification of Cetyl Alcohol - IP**

Sr. No	Tests	Specification
1.	Description	A white, unctuous mass, powder, flakes or granules; odour, slight.
2.	Solubility	Practically insoluble in water, producing an emulsion; moderately soluble in ethanol;
92		partially soluble in ether.
3.	Appearance of solution	The resulting solution is clear and not more intensely coloured than reference solution BS6
4.	Melting point	46 °C to 52 °C
5.	Acid value	NMT 1.0
6.	Hydroxyl Value	218 to 238
7.	lodine value	NMT 2.0
8.	Saponification value	NMT 2.0
9.	Assay	NLT 95 % (GC)

### **Specification of Cetyl Alcohol - BP**

Sr. No	Tests	Specification
1.	Description	A white, unctuous mass, powder, flakes or granules.
2.	Solubility	Practically insoluble in water, freely soluble or sparingly soluble in ethanol (96 per cent).
Ъ.		When melted, it is miscible with vegetable and animal oils, with liquid paraffin and with
φþ		melted wool fat.
3.	Appearance of solution	The solution is clear and not more intensely coloured than reference solution B6
4.	Melting point	46 °C to 52 °C
5.	Acid value	
6.	Hydroxyl Value	218 to 238
7.	lodine value	NMT 2.0
8.	Saponification value	NMT 2.0
9.	Assay	NLT 95 % (GC)

# **CETYL ALCOHOL**

### INCI Name: Cetyl Alcohol

CAS: 36653-82-4

**Applications: Pharmaceutical & Cosmetic**: Ointment, Creams, Lotions, Moisturize Cream, Skin care & Hair Care, Shampoos, Surface cleansing & Lubrication. Used as a Thickener in Lipsticks. Acts as an Emulsifier, Emollient, Thickener & an Opacifier in Cosmetic formulations. Pharma uses: This medication is used as a moisturizer to treat/prevent dry, rough, scaly, itchy skin, minor skin irritations such as Diaper Rash, Skin Burns from radiation therapy.

### **Specification of Cetyl Alcohol - USP**

Sr. No	Tests	Specification
1.	Description	Unctuous, white flakes, granules, cubes, or castings. Has a faint characteristic odor and
92		a bland, mild taste.
2.	Solubility	Soluble in alcohol and in ether, the solubility increasing with an increase in temperature;
20		insoluble in water.
3.	Identification	Chromatographic Identity
4.	Residue on Ignition	NMT 0.1 %
5.	Limit of related fatty alcohols	Complies (By GC)
6.	Acid Value	NMT 2
7.	Hydroxyl Value	218 – 238
8.	lodine value	NMT 5.0
9.	Water	NMT 0.5 %
10.	Assay	90 % to 102 % (GC)

### **Specification of Cetyl Alcohol - EP**

Sr. No	Tests	Specification
1.	Description	Appearance: white or almost white, unctuous mass, powder, flakes or granules.
2.	Solubility	Practically insoluble in water, freely soluble or sparingly soluble in ethanol (96 per cent).
¢φ		When melted, it is miscible with vegetable and animal oils, with liquid paraffin and with
92		melted wool fat.
3.	Identification	Examine the chromatograms obtained in the assay.
4.	Appearance of solution	The solution is clear and not more intensely coloured than reference solution B6.
5.	Melting point	46 °C to 52 °C
6.	Acid value	NMT 1.0
7.	Hydroxyl Value	218 to 238
8.	lodine value	NMT 2.0
9.	Saponification value	NMT 2.0
10.	Assay	NLT 95 % (GC)

# **STEARYL ALCOHOL**

#### INCI Name: Stearyl Alcohol

CAS: 112-92-5

**Applications: Pharmaceutical & Cosmetic**: Ointment, Cream & Lotions (as a Thickener), Surface Cleansing, Lubrication, Moisturize Cream. Used in Hair Conditioners, Eye makeup, Foundations, Skin cleansers. Used as an Emulsion stabilizer, Fragrance ingredient, Surfactant/Emulsifying agent, Foam booster, & a Viscosity increasing agent. Helps form emulsions & prevents it from separating into its oil & liquid components. Pharma uses: As a Stiffening agent, Emulsifier and Thickener in Pharmaceutical Formulations & to enhance the water-holding capacity of ointments.

### **Specification of Stearyl Alcohol - IP**

Sr. No	Tests	Specification
1.	Description	A white, unctuous mass or almost white flakes or granules; odour, faint and characteristic.
2.	Solubility	Freely soluble in chloroform and in ether, soluble in ethanol (95 per cent); practically insoluble
		in water.
3.	Appearance of solution	The solution is clear, and not more intensely coloured than reference solution BS6
4.	Melting point	55°C to 60°C
5.	Acid value	NMT 2.0 0000000000000000000000000000000000
6.	Hydroxyl Value	195 to 220
7.	lodine value	NMT 2.0
8.	Saponification value	NMT 2.0
9.	Assay	NLT 95 % (GC)

### **Specification of Stearyl Alcohol - BP**

Sr. No	Tests	Specification
1.	Description	A white or almost white, unctuous mass flakes or granules.
2.	Solubility	Practically insoluble in water soluble in ethanol (96 per cent). When melted, it is miscible
φþ		with fatty oils, with liquid paraffin and with melted wool fat.
3.	Appearance of solution	The solution is clear and not more intensely coloured than reference solution B6
4.	Melting point	57°C to 60°C
5.	Acid value	NMT 1.0
6.	Hydroxyl Value	197 to 217
7.	lodine value	NMT 2.0
8.	Saponification value	NMT 2.0
9.	Assay	NLT 95 % (GC)

# **STEARYL ALCOHOL**

### INCI Name: Stearyl Alcohol

CAS: 112-92-5

**Applications: Pharmaceutical & Cosmetic :** Ointment, Cream & Lotions (as a Thickener), Surface Cleansing, Lubrication, Moisturize Cream. Used in Hair Conditioners, Eye makeup, Foundations, Skin cleansers. Used as an Emulsion stabilizer, Fragrance ingredient, Surfactant/Emulsifying agent, Foam booster, & a Viscosity increasing agent. Helps form emulsions & prevents it from separating into its oil & liquid components. Pharma uses: As a Stiffening agent, Emulsifier and Thickener in Pharmaceutical Formulations & to enhance the water-holding capacity of ointments.

### **Specification of Stearyl Alcohol - USP**

Sr. No	Tests	Specification
1.	Description	Unctuous, white flakes or granules. Has a faint, characteristic odor and a bland, mild taste.
2.	Solubility	Soluble in alcohol and in ether; insoluble in water.
3.	Identification	Chromatographic Identity
4.	Residue on Ignition	NMT 0.1 %
5.	Limit of fatty alcohols	Complies (By GC)
6.	Acid Value	NMT 2.0
7.	Hydroxyl Value	195 – 220
8.	lodine value	NMT 2.0
9.	Water	NMT 0.5 %
10.	Assay	90 % to 102 % (GC)

### **Specification of Stearyl Alcohol - EP**

Sr. No	Tests	Specification
1.	Description	Appearance: white or almost white, unctuous flakes, granules or mass.
2.	Solubility	Practically insoluble in water, soluble in ethanol (96 per cent). When melted, it is miscible
ф		with fatty oils, with liquid paraffin and with melted wool fat.
3.	Identification	Examine the chromatograms obtained in the assay.
4.	Appearance of solution	The solution is clear and not more intensely coloured than reference solution B6.
5.	Melting point	57°C to 60°C
6.	Acid value	NMT 1.0
7.	Hydroxyl Value	197 to 217
8.	lodine value	NMT 2.0
9.	Saponification value	NMT 2.0
10.	Assay	NLT 95 % (GC)

# **STEARIC ACID**

#### **INCI Name: Stearic Acid**

CAS: 57-11-4

Applications: Pharmaceutical & Cosmetic : Ointment, Cream, Skin Care, hair care Surface Cleansing, Lubrication, Moisturize Cream, etc. Helps objects retain their shape, like in Soap bars, Candles, Oil pastels & Hard Candies. Used in Soaps, Shampoos, Baby lotions, Sunscreen, Shaving creams, Detergents. Pharma uses: Acts as an Emulsifying & Solubilizing agent, Tablet & Capsule Lubricant.

### **Specification of Stearic Acid - IP**

Sr. No	Test	S	Specification
1.	Descrip	tion	White or almost white, flakes or powder.
2.	Solubili	ty	Soluble in chloroform, in ethanol and in ether, practically insoluble in water.
3.	Identifi	cation	Assay chromatogram by GC.
4.	Congea	l <mark>ling temperature</mark>	NLT 54°C
5.	Acid va	alue contraction contra	200 to 212
6.	lodine	value	NMT 4.0
7.	Minera	l acid	No red colour is produced.
8.	Heavy	metals	NMT 20 ppm
9.	Sulpha <sup>-</sup>	ted ash	NMT 0.1%
10.	Assay	Stearic Acid	NLT 40 %
99	233	Stearic Acid And Palmitic Acid	NLT 90 %

### **Specification of Stearic Acid - BP**

~~~					
Sr. No	Tests				Specification
1.	Descrip	Description			White or almost white, flakes or powder.
2.	Solubili	Solubility			Practically insoluble in water, soluble in ethanol and in light petroleum.
3.	Appear	rance	¢Υ	xxxxx	The resulting liquid is not more intensely coloured than reference solution Y, or BY,
4.	Identifi	cation	Α.	Freezing point	Comply as per freezing point.
			B.	Acid value	194 to 212
φģ			C.	Assay	By chromatogram
5.	Acidity	Acidity			To the filtrate add 0.05 ml of methyl orange solution R. No red colour develops.
6.	lodine v	lodine value			NMT 4.0
7.	Freezing point				53 to 59 °C
8.	Assay Stearic Acid			xxxxx	NLT 40 % & NMT 60 %
52		Stearic Acid And Palmitic Acid			NLT 90 %

# **STEARIC ACID**

#### **INCI Name: Stearic Acid**

CAS: 57-11-4

Applications: Pharmaceutical & Cosmetic : Ointment, Cream, Skin Care, hair care Surface Cleansing, Lubrication, Moisturize Cream, etc. Helps objects retain their shape, like in Soap bars, Candles, Oil pastels & Hard Candies. Used in Soaps, Shampoos, Baby lotions, Sunscreen, Shaving creams, Detergents. Pharma uses: Acts as an Emulsifying & Solubilizing agent, Tablet & Capsule Lubricant.

# Specification of Stearic Acid - USP

Sr. No	Tests				Specification
1.	Description				White or almost white, flakes or powder.
2.	Solubility	Solubility			Practically insoluble in water, soluble in ethanol and in light petroleum.
3.	Identificatio	on	Α.	Freezing point	Comply as per freezing point.
66	5555	22	B.	Acid value	194 to 212
¢φ	$\infty \phi$	C. Assay		Assay	By chromatogram
4.	Acidity				To the filtrate add 0.05 ml of methyl orange solution R. No red colour develops.
5.	lodine value			, to the construction of t	NMT 4.0
6.	Freezing po	int	$\overline{\Omega}$		53 – 59 °C
7.	Colour of Solution			tititi	The resulting liquid is not more intensely colored than standard solution BY.
8.	Residue on ignition				NMT 4 mg
9.	Assay Ste	Assay Stearic Acid			NLT 40 %
233	Stearic Acid And Palmitic Acid			nd Palmitic Acid	NLT 90 %

### **Specification of Stearic Acid - EP**

-					
Sr. No	Tests				Specification
(1.)	Descrip	Description			White or almost white, flakes or powder.
2.	<mark>Solubil</mark> i	Solubility			Practically insoluble in water, soluble in ethanol and in light petroleum.
3.	Appear	ance	Þ	, tototot	The resulting liquid is not more intensely coloured than reference solution $Y_7$ or $BY_7$
4.	Identific	cation	Α.	Freezing point	Comply as per freezing point.
¢φ			B.	Acid value	194 to 212
ŶŶ			C.	Assay	By chromatogram
5.	<b>Acidity</b>	Acidity			To the filtrate add 0.05 ml of methyl orange solution R. No red colour develops.
6.	lodine v	lodine value			NMT 4.0
7.	Freezing point				53 to 59 °C
8.	Assay Stearic Acid			$\phi\phi\phi\phi\phi$	NLT 40 % & NMT 60 %
		Stearic Acid And Palmitic Acid			NLT 90 %

# **SODIUM LAURYL SULPHATE (SLS)**

**INCI Name: Sodium Lauryl Sulphate** 

Applications: Pharmaceutical & Cosmetic : Shampoos, Toothpastes, Shaving Foams, Shower Gels, Bubble baths, Laundry detergents, Dishwasher detergents, Car wash soaps and widely used in Cleaning products. Widely used as a Surfactant in Cosmetics, Cleaning products, and helps in creating rich lather & foaming. Used as an Emulsifier in Cosmetics. Pharma uses: Acts as Emulsifying agent, modified-release agent, solubilizing agent, Tablet & Capsule lubricant.

	Specification of Sodium Lauryl Sulphate (SLS) - IP						
Sr. No	Tests		Specification				
(1,)	Description	$\dot{m}$	A white or pale yellow powder or crystals.				
2.	Solubility	6662	Freely Soluble in water; forming an opalescent solution; partly soluble in ethanol (95%).				
3.	Identification	A. (	Produces plenty of foam.				
$\dot{\Phi}$		B.	Dichloromethane layer is intensely blue.				
99		C.	A white, crystalline precipitate is produced.				
	racaracacac	D.	No precipitate is formed.				
4.	Alkalinity	tà chi	Not more than 0.5 ml of 0.1 M Hydrochloric acid is required to change the color of the				
ŶŶ			solution.				
5.	Non-esterified alcohols	$\phi\phi\phi$	NMT 4.0 %				
6.	Sodium Chloride and Sodium	n <mark>Sulphate</mark>	NMT 8.0 %.				
7.	Assay	i de la composición de la comp	NLT 85.0 % (Calculated as C12H25NaO4S)				

### **Specification of Sodium Lauryl Sulphate (SLS) - BP**

Sr. No	0 lests		Specification
1.	Description		A white or pale yellow powder or crystals.
2.	Solubility	$\phi \phi \phi$	Freely soluble in water giving an opalescent solution, partly soluble in ethanol (96 per cent).
3.	Identification	A. (	A Copious foam is formed.
99		B.	An intense Blue color develops in the methylene chloride layer
5		<b>C</b> .	A white, crystalline precipitate is formed.
26		D.	A white precipitate is produced
4.	Alkalinity		Not more than 0.5 ml of 0.1 M Hydrochloric acid is required to change the color of the
		995	solution.
5.	Non-esterified alcohols	9999	NMT 4.0 %
6.	Sodium Chloride and Sodium Sulphate		NMT 8.0 %.
7.	Assay		NLT 85.0 % (Calculated as C12H25NaO4S)

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CAS: 151-21-3

# SODIUM LAURYL SULPHATE (SLS)

INCI Name: Sodium Lauryl Sulphate

CAS: 151-21-3

**Applications: Pharmaceutical & Cosmetic :** Shampoos, Toothpastes, Shaving Foams, Shower Gels, Bubble baths, Car wash soaps. Surfactant, Cleaning, foaming. Modified-release agent, solubilizing agent, Tablet & Capsule lubricant.

### **Specification of Sodium Lauryl Sulphate (SLS) - USP**

Sr. No	o Tests		Specification
1.	Description		Small, white or light yellow crystals having a slight, characteristic odour.
2.	Solubility		Freely soluble in water, forming an opalescent solution.
3.	Identification	<b>A</b> .	IR Identification.
λų.		B.	A white, crystalline precipitate is produced.
φģ		C.	A white precipitate is produced.
¢φ		D.	Copious foam is formed.
		E.	Blue color develops in methylene chloride layer
4.	Alkalinity		Not more than 0.5 ml of 0.1 N Hydrochloric acid is required to change the color of the
60			solution.
5.	Total Alcohols		NLT 59 %
6.	Unsulfated Alcohols		NMT 4.0 %
7.	Sodium Chloride and Sodium Sulphate		NMT 8.0 %.
8.	Assay		NLT 85.0 % (Calculated as C12H25NaO4S)

### Specification of Sodium Lauryl Sulphate (SLS) - EP

Sr. No	. No Tests		Specification
1.	Description		Appearance: white or pale yellow, powder or crystals.
2.	Solubility	9999	freely soluble in water giving an opalescent solution,
φþ		200	partly soluble in ethanol (96 per cent).
3.	Identification	Α.	Copious foam is formed.
		B.	An intense blue colour develops in the methylene chloride layer.
XX		<b>C</b> .	A white, crystalline precipitate is formed.
φþ		D.	The residue gives reaction of sodium
4.	. Alkalinity		Not more than 0.5 ml of 0.1 M Hydrochloric acid is required to change the color of the
22			solution.
5.	Non-esterified alcohols		NMT 4.0 %
6.	Sodium Chloride and		NMT 8.0 %
¢φ	Sodium Sulphate		
7.	. Assay		NLT 85.0 % (Calculated as C12H25NaO4S)

# **CERESIN WAX**

### INCI Name: Ceresin wax / Ozokerite

Applications: Cosmetic : Cosmetics, personal care, crayons, coatings, candles, industrial, pharmaceuticals and inks.

### **Specification of Ceresin Wax I.H.S.**

Sr. No	Tests	Specification
1.	Description	White waxy slab/pastilles, and odourless
2.	Solubility	Insoluble in water, soluble in benzene and chloroform
3.	Melting point	61°C to 78°C
4.	Specific gravity	0.88 to 0.92
5.	Penetration	NMT 6 mm
6.	Acid Value	NMT 0.5
7.	Sulphated ash	NMT 0.1 %

# **CETOMACROGOL 1000**

INCI Name: Ceteareth - 20

CAS: 9004-95-9

**Applications: Cosmetic :** It is used as a solubilizer and emulsifying agent in foods, cosmetics, and pharmaceuticals, often as an ointment base, and also as a research tool. It is used as O/W emulsifier for creams/lotions; Wetting agent in sticks; Conforms to BP specifications.

### Specification of Cetomacrogol 1000 I.H.S.

Sr. No	lo Tests		Specification
1.	Description		A White colored, waxy, unctuous mass, pellets, flakes, or powder; when heated, it melts
¢φ			to a brownish yellow, clear liquid; Characteristic odor or almost odorless.
2.	Solubility	2222	Soluble in water, ethanol, and acetone; practically insoluble in light petroleum.
3.	Identification	A.	A greenish yellow precipitate is produced.
		B.	Precipitate is formed which dissolves on further addition of tannic acid solution.
4.	Melting point	tapa	NLT 38 °C
5.	рНоссороностор		5.5 to 8.0
6.	Acid value		NMT 0.5
7.	Alkalinity		NMT 0.5 ml of 0.1 M HCL is required to obtain a pink colour.
8.	Saponification value		NMT 1.0
9.	Water content (By KF)		NMT 1 %
10.	. Hydroxyl value		40 - 55

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CAS: 8001-75-0

# **KOKUM BUTTER**

INCI Name: Garcinia Indica Seed Butter

Applications: Cosmetic : Kokum butter has powerful moisturizing properties and won't clog pores.

### Specification of Kokum Butter I.H.S.

Sr. No	Tests	Specification		
1.	Appearance	Yellowish White or off White , soft unctuous mass , characteristic odour.		
2.	Melting point	34 °C to 55 °C		
3.	Saponification Value	160 to 193		
4.	Iodine Value	35 to 72		
5.	Acid Value	NMT 10		
6.	Moisture	NMT 1 %		

### MANGO BUTTER

INCI Name: Mangifera Indica Seed Butter

Applications: Cosmetic : Mango butter is an effective moisturizer and may help soften your skin.

<b>Specification</b>	of Mango	Butter I.H.S.
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Sr. No	Tests	Specification
1.	Appearance	Light Yellowish or Pale Yellow, Soft unctuous mass, characteristics odour.
2.	Melting Point	31°C to 39°C
3.	Saponification Value	183 to 198
4.	lodine Value	39 to 48
5.	Unsaponifiable matter	NMT 2%
6.	Moisture & Volatile matter	NMT 0.5

**OZOKERITE WAX** 

INCI Name: Cera Microcristallina (As per EU) / Ozokerite (As per Non EU)

CAS: 64742-33-2

Applications: A quite valuable ingredient in cosmetics as well as personal care. It is a texture enhancing agent that keeps the emulsions in a formulation from separating.

Specification of Ozokerite wax I.H.S.			
Sr. No	Tests	Specification	
1.	Description	White coloured slab or pastilles.	
2.	Solubility	Soluble in benzene, slightly soluble in alcohol, Insoluble in water.	
3.	Melting range	72°-78° C	
4.	Acid value	NMT 0.5	
5.	Saponification value	NMT 4.0	
6.	Penetration at 25°C	NMT 15	

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CAS: 90063-86-8

CAS: 68956-68-3

# **PURIFIED HONEY**

#### **INCI Name: MEL**

CAS: 8028-66-8

**Applications: Cosmetic** : Honey has antibacterial, antifungal, and antioxidant properties, which is why honey is used for healing wounds. After any skin injury, bacteria that live on your skin can infect and penetrate the wound site. Honey, has been found to destroy these bacteria.

### **Specification of Purified Honey I.H.S.**

Sr. No	Tests	Specification
1.	Appearance	Yellow colour Thick Viscous Liquid.
2.	Identification	Sample solution Shows maximum at about 520nm.
3.	Chloride	NMT – 0.035%
4.	Sulfate	NMT – 0.024%
5.	Total Ash	NMT- 0.3%
6.	Specific Gravity	1.400- 1.435
7.	Refractive Index	1.4900 – 1.4992
8.	Water	15.0% - 18.6%

# **RICE BRAN WAX**

#### INCI Name: Oryza Sativa

#### CAS: 8016-60-2

**Applications:Cosmetic :** It is used in paper coatings, textiles, explosives, fruit & vegetable coatings, confectionery, pharmaceuticals, candles, moulded novelties, electric insulation, textile and leather sizing, waterproofing, carbon paper, typewriter ribbons, printing inks, lubricants, crayons, adhesives, chewing gum and cosmetics.

### **SPECIFICATION OF RICE BRAN WAX I.H.S.**

Sr. No	Tests	Specification
1.	Description	Yellow to yellowish white Pastilles.
2.	odour	Characteristic
3.	Melting Point	75° C to 82° C
4.	Acid Value	NMT 13
5.	Saponification value	75 to 120
6.	lodine value	5 to 20

## **SHEA BUTTER**

INCI Name: Butyrospermum Parkii

Applications: Cosmetic : Cream, Lotion, Lip Balm, Moisturizing Cream, Body Lotion etc.

### **SPECIFICATION OF SHEA BUTTER I.H.S.**

Sr. No	o Tests		Specification
1.	Description	opposed (	Yellowish white or almost white colored soft unctuous mass
2.	Solubility		Insoluble in water and in alcohol, soluble in warm xylene
3.	Melting range	attatata	30°-50°C
4.	Acid value		NMT 2.0
5.	lodine value	$\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}\dot{\phi}$	50-75
6.	Saponification value		169 - 190
7.	Peroxide Value		NMT 5 %
8.	Water		NMT 0.25%
9.	Fatty Acid	Palmitic Acid	3 – 9 %
	Compositin (GC)	Stearic Acid	32 – 50 %
φ	100000000000000000000000000000000000000	Oleic Acid	40 - 57 %
φþ	$\chi \chi \chi \chi \chi \chi$	Linoleic Acid	4 – 8 %
	TITIOTITI		

## SOYA WAX FLAKES

INCI Name: Hydrogenated Soybean Oil

CAS: 8016-74-0

**Applications: Cosmetic :** Natural Soy Candle Flakes are the ideal ingredient for Candle Making as it is eco-friendly and healthfriendly. Organic Soy Wax Chips is ideal for making Lip Balms, Body Butter, Lotions, Creams, etc. due to its emollient properties. It can even be used in hair styling products like hair gels and pomades. Many cosmetic and beauty products prefer using Soy wax flakes over other waxes because it blends very well with many essential oils, colored tints, and natural scents.

### Specification of Soya Wax Flakes I.H.S.

Sr. No	Tests	Specification
1.	Appearance	Off White Flakes
2.	Solubility	Practically insoluble in water, partially soluble in hot ethanol (90 per cent V/V) and
¢φ		completely soluble in fatty and essential oils.
3.	Acid Value	3.0 max
4.	Melting range	55° – 65°C
5.	lodine value	2.0 max
6.	Peroxide value	4.0 max
7.	% Moisture	0.25% max

CAS: 194043-92-0

### **OUR PRODUCT IN USE**



# OUR PRODUCT IN USE

INDIA













































### **OUR PRODUCT IMAGES**

INDIA



# **OUR CERTIFICATION**























**MICROBIOLOGY SECTION** 







BACTERIOLOGICAL INCUBATOR



Q. C. & Q. A. SECTION



**INSTRUMENTS ROOM (A.C)** 











भारत का हर नागरिक देश का सिपाही हैं, देश का विकास, शांति और सुरक्षा के लिए हम सबको हमेशा प्रयत्न करना चाहिए।



देश की सुरक्षा को

अमर जवान