

# PERFUME





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# WHAT IS PERFUME



- Perfume is a mixture of fragrant essential oils or aromatic compounds, fixatives and solvents used to give the human body, animal, food objects and living spaces a pleasant scent.
- It has been used for centuries by mankind.
- Perfumes are supposed to release a continuous pleasant fragrance that will provide a long lasting feeling of freshness.
- Initially it was only used for religious purpose but now it has become an ornament of sophistication for both men and women.

# HISTORY OF PERFUME



- The Egyptians were the first who used perfume for personal enjoyment, but the production of perfume was reserved for the priests and they used it in religious purpose.
- The Greek used an extraordinary amount of perfume and for each part of the body they used a different fragrance for hygiene and cult of the body.
- The history of the Arabs is the fusion of art and science.
   Two talented Arabian chemists-Jābir ibn Hayyān and Al-Kindi established the perfume industry.
- The Romans used perfume as a part of luxury.

# HISTORY OF PERFUME



- The oldest perfumery was discovered on the island of Cyprus 4,000 years ago indicating that perfume manufacturing was on an industrial scale.
- The Hungarians introduced the first modern perfume, made of scented oils blended in an alcohol solution at the command of Queen Elizabeth of Hungary.
- France is the birthplace of modern perfumery. France provided to grow aromatic plants for perfume industry with raw materials. Even today, France remains the centre of the European perfume design and trade.
- England and Germany also contributed a lot in modernization of perfumery.

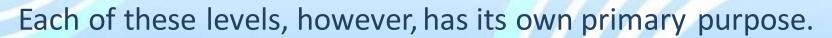
## **NOTES IN PERFUME**



- Perfume is described in a musical metaphor as having three sets of *notes*, making the harmonious scent *accord*.
- These notes are created carefully with knowledge of the evaporation process of the perfume.

The three notes are:

- a. Top notes
- b. Middle notes
- c. Base notes





# **NOTES IN PERFUME**



### a) Top notes:

They are generally the lightest of all notes and recognized immediately after application. Top notes consist of small, light molecules with high volatility that evaporate quickly.

Common fragrances of top notes include citrus (lemon, orange zest), light fruits (grape, berries) and herbs (clary sage, lavender).

#### b) Middle Notes:

The middle notes, or the heart notes, make an appearance once the top notes evaporate. The middle note compounds form the "heart" or main body of a perfume and act to mask the often unpleasant initial impression of base notes, which become more pleasant with time.

Common fragrances of middle notes includes rose, lemon, ylang ylang, lavender, nutmeg and jasmine.

# **NOTES IN PERFUME**



#### c) Base notes:

Base notes or bottom or dry notes appear while middle notes are fading. The base and middle notes together are the main theme of a perfume. Base notes bring depth and solidity to a perfume.

Common fragrances of base notes include sandalwood, vanilla,

amber and musk.

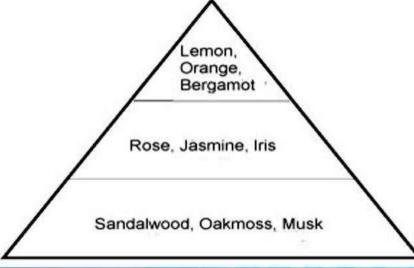


Fig: Three notes of perfume

# **CLASSIFICATION OF PERFUMES**



 Perfumes are classified into five major groups on the basis of concentration of fragrance and duration of lasting:

Class	% of aromatic compound	Duration (hours)
Parfume(perfume)	20-30	6-8
Eau de parfume	15-20	4-5
Eau de toilette	5-15	2-3
Eau de cologne	2-4	2
Eau fraiche	1-3	2

# **CLASSIFICATION OF PERFUMES**



- Perfumes can further be classified into following classes:
  - 1. Bright floral: Fragrance from one or several flowers. e.g. Estee lauder's Beautiful
  - 2. Green: Fragrance from cut grass or leaf. e.g. Calvin Klein's Eternity
  - 3. Aquatic: A clean smell reminiscent of ocean. e.g. Davidoff Cool Water
  - 4. Citrus: Has freshening effect. E.g. Faberge Brut
  - 5. Fruity: Aromas of fruits other than citrus. E.g. Ginestet Botrytis
  - 6. Gowmand: Scent with edible or desert like qualities.

E.g.

Thierry Mugler's Angel.

# **AROMATIC SOURCES**



Fragrances used in perfume can be found from following sources:

#### a) Plant Source:

Barks, flowers, blossoms, fruits, resin, roots, seeds, woods etc.

#### b) Animal Source:

Musk, civet, honeycomb etc.

#### c) Synthetic Source.

Calone, synthetic terpenes etc.

# MANUFACTURING PROCESS



Perfumes can be manufactured by following steps:

- I. Collection
- II. Extraction
- III. Blending
- IV. Aging

# MANUFACTURE OF PERFUME



## I. Collection.

Before manufacturing process begins the sources of suitable fragrances are collected in the manufacturing centre.

## II. Extraction:

Oils are extracted from plants and other substances by several methods like:

#### a. Steam distillation:

steam is passed through plant materials held in a still, whereby the essential oil turns to gas. This gas is then passed through tubes, cooled, liquefied and collected.

# MANUFACTURE OF PERFUME



#### b. Solvent extraction:

The flower parts are dissolved in benzene or petrolatum that retains the fragrance of the flower. Alcohol is used to dissolve the fragrance and heated to obtain it after evaporation of alcohol.

#### c. Enfleurage:

Flowers are kept in glass sheet with grease that absorb the fragrance of flowers.

#### d. Expression:

The citrus fruits or plants are manually or mechanically pressed until all the oil is squeezed out.

# MANUFACTURE OF PERFUME



## III. Blending:

Once the perfume oils are collected, they are ready to be blended together according to a formula determined by a master in the field, known as a "nose."

After the scent has been created, it is mixed with alcohol. Most full perfumes are made of about 10-20% perfume oils dissolved in alcohol and a trace of water.

## IV. Aging:

Fine perfume is often aged for several months or even years after blending to ensure that the correct scent has been achieved.

# **COMPOSITION OF PERFUME**



Perfumes are mainly composed of –

#### 1. Essential oils:

Derived from natural aromatic plant extracts and/or synthetic aromatic chemicals. E.g. limonene, linalool, geraniol, citral etc.

#### 2. Fixatives:

Natural or synthetic substances used to reduce the evaporation rate. E.g. benzyl benzoate, benzyl alcohol etc.

#### 3. Solvents:

The liquid in which the perfume oil is dissolved in is usually 98% ethanol and 2% water.

Alcohol allows fragrance to spread along with it and does not permit microbial growth in the perfume.

## INGREDIENTS CAUSING ALLERGIC REACTION

Ingredients	Use	Side effects
Sandal wood	Fragrance	Hypersensitivity
Limonene	Slightly astringent smell	Irritates the skin
Benzyl alcohol	Fixative	Skin irritant causing redness and pain
Benzyl benzoate	Fixative; sweet balsamic odor	Skin irritation like blister, itching, scaling, redness.
Acetone	Solvent	Inhalation cause dryness of mouth & throat
Ethylacetate	Solvent	Defatting effect on skin & may cause drying & cracking

# ATTAR



- Attar is a perfume or essential oil obtained from flowers or petals (often from bark or leaves). It is mainly used in religious purpose.
- The word "attar" comes from the word `atir, which in the Persian language means "sweet or fragrant."
- Attars are alcohol-free and are used by many Muslim men and women.
- Attars are also used among Hindu, Buddhist meditation practices.

# **TYPESOFATTAR**



- On the basis of manufacturing ingredients attars are classified into following classes-
- > Floral Attars:

Attars manufactured from single species of flower.

> Herbal Attars:

Attars manufactured from combination of floral, herbal & spices.

- ☐ Attars can also be classified based on their effect on human body
- **Warm Attars:**

Attars such as Musk, Amber, Saffron, Oud are used in winters, they increase the body temperature.

Cool Attars:

like Rose, Jasmine, Khus, Kewda, Mogra, are used in summers and they have cooling effect on the body.

## DIFFERENCE BETWEEN PERFUME AND ATTAR

Attar	Perfume
1. Pure, only contains natural products.	1. Often contains synthetic products as fragrance and additives.
2. No use of alcohol.	2. Alcohol is used as solvent
3. Essential oil is separated from flower in a closed vessel.	3. Separation process can be done in both open and closed vessel.
4. Manufacturing process is water distillation.	4. Manufactured via steam distillation, solvent extraction, enfleurage, expression etc.
5. Sandalwood oil is used as fixative.	5. Benzyl benzoate, benzyl salicylate, benzyl alcohol etc. are used as fixative
6. Long lasting, evaporates slowly	6. Evaporates faster than attar

# PSYCHOLOGY OF USING PERFUME



- When we inhale the odorant molecules of a perfume, it not only creates the sensation of odor but also creates emotions and experiences associated with it. For instance, we focus on the pleasant childhood memories associated with the smell of vanilla.
- Stimulation of hippocampus causes secretion of growth hormone, sex hormone and neurotransmitters.
- Another reason behind perfume use is to increase ones attractiveness in the eyes of other people.
- We wear a perfume which best expresses our individuality, our tastes and our character.
- Perfume using may become a habit and without it a person may feel incomplete.

# OTHER REASONS OF USING PERFUME



- To mask body mal odor
- To complement one's mood and please one's senses
- Helps to get rid of anxiety and depression
- To deepen spirituality
- To soothe someone
- For religious purpose
- To be fresh and chilled all day long

# LEADING PERFUMEBRANDS



There are several leading expensive brands of perfume around the world that are not available in Bangladesh. E.g.

- Clive Christian no.1 (price-\$2150 per oz)
- Channel grand extrait (\$4200 per oz)
- Shalini Perfume (2.2 oz bottle \$900)
- Chanel No. 5 (per 100 ml \$ 234)

# BRANDS AVAILABLE IN BANGLADESH



#### **Brands Available For Men**

Brand	Product	
Calvin Klein	<ul><li>a.</li><li>b.</li><li>c.</li><li>d.</li></ul>	Be Obsession Eternity One
Gucci	a. b. c.	Gucci Envy Made to Measure Gucci by Gucci
Mont Blac	a. b.	Presence Farrari

#### **Brands Available For Women**

Brand	Product
Paris Hilton	<ul><li>a. Heiress</li><li>b. Dazzle</li><li>c. Just Me</li></ul>
Blue lady	Blue lady
Calvin Klein	<ul><li>a. Beauty</li><li>b. Eternity</li><li>c. Euphoria</li></ul>

# Thank You