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Geranium Infused Solid Wax Elegance: A Fragrance Revolution

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ABSTRACT

No elegance is possible without perfume. It is the unseen, unforgettable, ultimate accessory solid perfume is mixture of fragrant essential oils or aroma compounds used to human body or living spaces. Aggregable scent or timeless elegance. Mainly these solid perfumes give pleasant, satisfying, attracting scent to person's body and specially increasing self-confidence. Also, they enhance health & improving mood reducing anxiety & stress & improving sleep. Basically, solid perfumes are prepared with the help of bee's wax that might having some spicy, sweet & floral smell then scented with essential oils or fragrance oil like almond oil, Jojoba oil, Grapeseed oil or Olive oil. Some of the lavender oil, sandalwood & sometime coconut oil, this is moisturized to skin and also gives the therapeutic or medicinal benefit like geranium is used as essential oil & it gives therapeutic use pain reliever antimicrobial, antifungal etc. Now these days many people don't know the solid perfume or knowledge about solid perfume. My concept is to satisfy customer and enhance their experience for cream perfume and our perfume specially is to 100% vegan and made up of natural oils and extract with therapeutic benefits.

Keywords: Elegance, Unforgettable, Aggregable, Jojoba oil, Geranium.

INTRODUCTION

Medicinal plants have played a significant role in various medicine systems worldwide, regardless of their methodologies and concepts. These systems include western medicine, the Unani system, Ayurveda, and the oriental system in China and Japan. Medicinal plants have been recognized for their therapeutic properties and have been utilized not only as drugs but also in other industries such as food and cosmetics^[5]. They are often used as nutraceuticals to provide consumers with nutritionally enriched supplements. In the cosmetic industry, natural sources are employed to create a wide range of products including creams, gels, oils, masks, make-up cosmetics, moisturizers, and balms^[12]. Additionally, the extraction of volatile oils or essential oils from plant sources has contributed to the growth of the aroma industries and perfumery^[11].

PERFUME

The term 'perfume' has its roots in the Latin word 'per fumum', which translates to 'through smoke'. Its existence dates back to 4000 years ago in Mesopotamia, where it was used in the form of incense^[2]. Perfumery is a science that involves chemistry, and the end result is a product of creativity. The art of perfumery is a testament to its inherent aesthetic qualities. Fragrances are classified based on their concentration levels, scent families, and notes^[5]. The concentration level determines the intensity and longevity of the scent on the skin. The higher the concentration of fragrance, the longer it will last on the skin.

There are mainly four types:

- Parfum- 15% to 30% aromatic compounds
- Eau de Parfum- 8% to 15% aromatic compounds
- Eau de toilette - 4% to 8% aromatic compounds
- Eau de cologne - 2% to 5% aromatic compounds^[9].

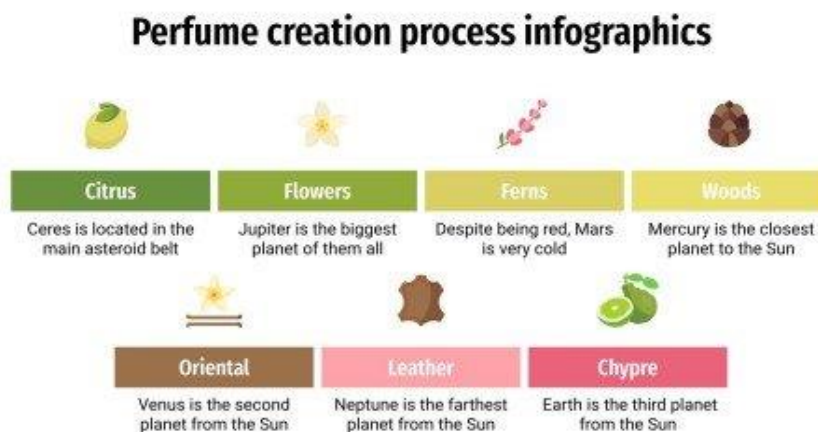


Fig no.1: Types of perfume notes

SOLID WAX PERFUME

Solid wax perfume is a unique and convenient way to enjoy your favorite scents. Unlike traditional liquid perfumes, solid wax perfume is a compact, waxy substance that holds fragrance. It's often shaped into small, portable containers or even decorative shapes. To use it, you simply rub or dab a bit of the wax onto your skin or clothing^[8]. As your body heat warms the wax, it releases a pleasant aroma that lasts for hours. Solid wax perfumes are popular for their portability, long-lasting scent, and the absence of alcohol or chemicals found in liquid perfumes, making them a natural and subtle way to carry your favorite fragrance with you wherever you go^[9].

It's portable, spill-proof, and a great option for people who prefer a more subtle and controlled scent experience. Solid wax perfumes come in a variety of scents and are a popular choice for those looking for a unique and versatile way to enjoy their favorite fragrances^[2]. They come in various scents and are a popular choice for those who prefer a more portable and mess-free fragrance option.

These perfumes are a type of fragrance that is formulated in a solid base rather than a liquid one, such as water or alcohol. The base of these perfumes is typically made from waxes that can be melted to incorporate the fragrance and then solidified at room temperature^[4]. Common base materials include beeswax, Vaseline, and petroleum jelly. Application of solid perfumes is achieved by using fingers or a cotton swab to apply the fragrance to the skin. The intensity of the scent is determined by the concentration of essential oils used in the formulation^[11]. Solid perfumes are a convenient and portable option for fragrance on-the-go.

Each perfume is like a special story told through fragrance, expressing different emotions and memories. It's a mix of science and art, combining different smells to craft something beautiful and personal. When someone wears my perfume^[9], I hope it brings a smile to their face and makes them feel confident and happy.

Basically, the bees wax perfume that might be having some spicy, sweet & floral Smell/Scent^[9].

TYPES OF SOLID WAX PERFUME

There are a few different types of solid perfume, each with their own benefits:

- 1. Traditional Solid Perfume:** This type of solid perfume is made with a base of beeswax or other natural waxes and then scented with essential oils or fragrance oils. It's the most classic form of solid perfume and usually has a strong, long-lasting scent^[8].
- 2. Alcohol-Based Solid Perfume:** This type of solid perfume is made with a base of alcohol, which evaporates quickly on your skin. It's perfect for those who don't like the feeling of traditional wax-based perfumes and it also tends to have a lighter scent. You can often find this in a roller ball-type application^[11].
- 3. Oil-Based Solid Perfume:** This type of solid perfume is made with an oil base, which means it won't evaporate as quickly as an alcohol-based perfume. It's perfect for those who want a long-lasting scent that won't fade away quickly^[11].

SCENT CATEGORIES

1. Floral Solid Perfumes:

Florals are a classic, especially for spring and summer when fragrant blooms are all around us. Floral scents can be both feminine and sophisticated, and can range from simple, single-notes ^[7].

e.g.: Jasmine, Lavender.

2. Fresh Solid Perfumes:

Another classic for summer, bright, fresh scents are fantastic for when you want that fresh-out-of-the-shower aroma to linger all day ^[7].

e.g.: Lemongrass, Tea tree.

3. Spicy Solid Perfumes:

If heavier, more sensual scents are more your thing, opt for a spicy blend. Small-batch solid perfumes are a great alternative to the more complex, sophisticated, designer perfumes ^[9].

e.g.: Cinnamon, Ginger.

4. Earthy Solid Perfumes:

It is something about walking in nature, seeing and smelling the trees, pine, cut wood, that balances and centres us.

eg: Cedarwood, Sandalwood ^[2].

FRAGRANCE WHEEL



Fig no.2: Fragrance wheel ^[8]

NEED OF SOLID WAX PERFUMES

1. It gives the idea of hygiene and personal care.
2. Smelling good gives the idea of personal care and also represents positive vibes ^[4].
3. Wearing particular scents during different work may help in remembering certain events and activities.
4. An odour also helps in the amplification of mood.
5. Smelling good also elevates confidence ^[2].
6. Many fragrant essential oils are used in treatments through aromatherapy or naturopathy.
7. Perfumes also play an important role in attracting or deviating.
8. Overall, it just not only helps in improving health but also removing stress and creating a positive lifestyle ^[3].

ADVANTAGES OF SOLID WAX PERFUME

- 1. Longer-lasting scent:** Solid perfumes tend to have a subtler and longer-lasting fragrance compared to liquid perfumes because the wax base can hold the scent for an extended period ^[9].
- 2. Moisturizing properties:** The wax in solid perfumes can have moisturizing effects on the skin, helping to keep it hydrated while providing a pleasant fragrance.
- 3. Environmentally friendly:** Solid wax perfumes typically come in reusable or recyclable containers, making them a more sustainable option compared to disposable liquid perfume bottles ^[7].
- 4. Easy application:** Solid perfume is applied directly to the skin, making it less likely to be overused, which can happen with liquid sprays.
- 5. Reduced spill risk:** Since solid perfume is not a liquid, there's no risk of spills or leaks in your bag or luggage ^[1].
- 6. Geranium Oil Benefits:**

Geranium oil is known for its various skin benefits. It is believed to have anti-inflammatory, antimicrobial, and antioxidant properties, which can contribute to the overall health of the skin ^[7].

DISADVANTAGES OF SOLID WAX PERFUME

- 1. Limited scent selection:** Creating a wide range of scents in solid form can be challenging compared to the variety available in liquid perfumes.
- 2. Skill required:** Making solid perfumes may require some skill in blending and crafting, and it might not be as straightforward as using commercial liquid perfumes.

3. Ingredients and equipment: You'll need specific ingredients and tools, which might not be readily available and could involve a higher initial investment ^[1].

4. Sensitivity concerns: Some individuals may have sensitivities or allergies to the ingredients in solid perfumes, which could lead to skin irritations.

5. Packaging challenges: Designing suitable and aesthetically pleasing packaging for your solid wax perfumes may require extra effort and cost ^[10].

6. Temperature Sensitivity: Solid wax perfumes can be sensitive to temperature changes. In very warm conditions, the wax may soften or melt, affecting the product's consistency and potentially making it messy to use.

7. May Melt in Heat: Solid perfumes can melt in high temperatures, making them less suitable for very hot climates ^[7].

INGREDIENTS

The aim of solid wax perfume is to provide a long-lasting and convenient way to carry and apply fragrance. we have used the following ingredients:

- 1. Beeswax:** Beeswax is used in solid wax perfume as a natural and sustainable ingredient that helps solidify and bind the fragrance oils, allowing for a convenient and long-lasting perfume application ^[4].
- 2. Carrier Oil:** Carrier oils are used in solid wax perfumes to dilute and disperse the fragrance oils, making them safe to apply on the skin and enhancing the overall scent performance ^[11].
- 3. Essential Oil:** Essential oils are used in solid wax perfumes to provide the desired fragrance, giving the perfume its unique and pleasant scent ^[1].
- 4. Geranium:** Geranium is used in solid wax perfumes to impart a fresh and floral scent, adding a pleasant and natural fragrance to the perfume ^[11].

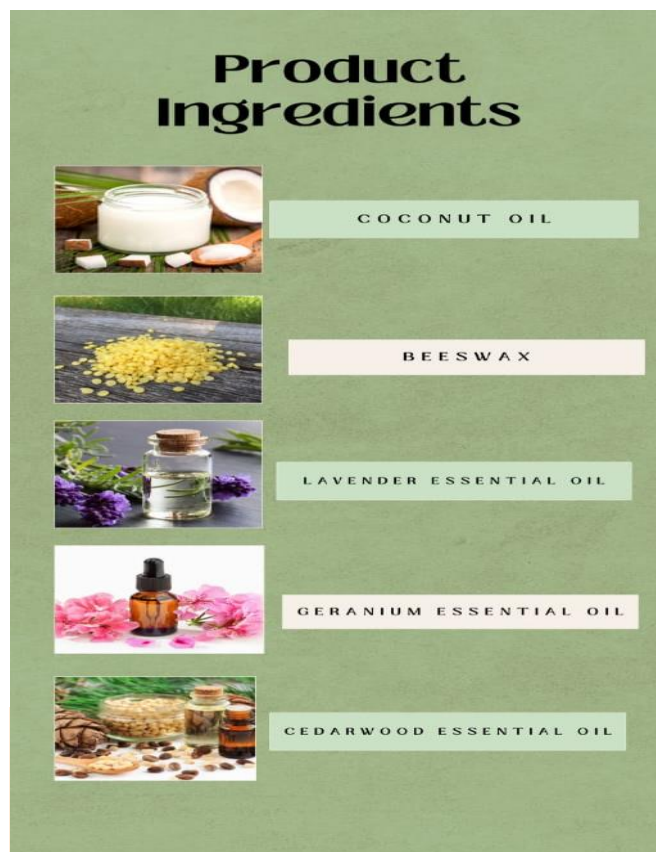


Fig no. 3:Ingredients of cream perfume

BEE SWAX



Fig no. 4: Beeswax

Scientific Name:Cera alba

Family:Apidae.

Order: Hymenoptera

Kingdom: Animalia

Genus: Apis

Extraction Method:Melting in hot water

Uses: Cream perfume, Lip balm ^[4]

COCONUT CARRIER OIL



Fig no. 5: Coconut carrier oil

Scientific Name: Cocos nucifera

Family: Aceraceae (palm family).

Order: Arecales

Kingdom: Plantae

Genus: Cocos

Extraction Method: Distillation

Uses: Excellent carrier oil and perfume diluent [11]

GERANIUM ESSENTIAL OIL



Fig no. 6: Geranium essential oil

Scientific Name: Cranesbills

Family: Geraniaceae

Order: Geraniales

Kingdom:Plantae

Genus: Pelargonium

Extraction Method:Steam distillation of the leaves.

Uses: It has a sensual, sweet & romantic floral fragrance ^[1]

CEDARWOOD ESSENTIAL OIL



Fig no. 7: Cedarwood essential oil

Scientific Name: Cedrusdeodara

Family: auraceae

Order: Pinales

Kingdom: Plantae

Genus:Cedrus

Extraction Method: Steam distillation of sawdust and wood chips.

Uses: It has a woody and slightly sweet scent ^[1]

PROCEDURE

Step 1. You have to Prepare Your Work Area for the Preparation of Perfumes:

Step 2. Melt the Beeswax:

Using a double boiler or a microwave-safe container, gently heat the beeswax until it melts. Be cautious not to overheat it ^[4].

Step3.Add Carrier Oil:

Once the beeswax has melted, add the carrier oil to the melted beeswax. Adjust this ratio based on your desired consistency ^[11].

Step4.Incorporate Aromatic Ingredients:

Add your chosen aromatic ingredients to the mixture. This can include essential oils, natural extracts, resins, herbs, spices, or any combination you prefer. The quantity of essential oils ^[11] or other fragrant elements will depend on your desired strength of fragrance. In that use the Geranium.

Step5.Stir and Blend:

Gently stir the mixture to ensure that the aromatic ingredients are evenly distributed throughout the beeswax and carrier oil. This blending step helps combine the scents and ensures a balanced fragrance.

Step6.Optional Test and Adjust:

Before pouring the mixture into containers, you can take a small amount and let it solidify to test the scent ^[2]. If it's not as strong as you'd like, you can add a bit more of your chosen aromatic ingredients and repeat the blending process.

Step7.Pour into Containers:

Carefully pour the melted perfume mixture into your chosen containers. If you're using silicone moulds, you can pour the mixture into the moulds to shape the perfume.

Step8.Cool and Solidify:

Allow the containers or moulds to cool and the mixture to solidify. This might take some time, so be patient.

Step9.Label and Store:

Once the perfume has fully solidified, you can label the containers with the name of the fragrance and the date of creation. Store the perfume in a cool, dry place away from direct sunlight ^[9].

Step10.Application:

To use the perfume, simply rub a small amount onto your fingertips and apply it to pulse points on your body ^[4].

How to use solid wax perfume:

When it comes to using solid perfume, there are a few different methods you can use to apply it. The most common way is to simply rub it on your skin, but you can also dab it on with your fingers or use a cotton ball.

Here are a few tips for getting the most out of your solid perfume:

- Start with clean skin:** Be sure to wash and moisturize your skin before applying solid perfume. This will help the scent last longer and prevent any irritation.
- Apply to pulse points:** Pulse points are areas where your body heat emits more strongly, such as the wrists, neck, and behind the ears ^[12]. Applying perfume to these areas will help make the scent last longer.
- Layer with other products:** If you want the scent of your solid perfume to be stronger, you can layer it with other products such as lotion or body oil. Just be sure not to overdo it, as too much fragrance can be overwhelming ^[5].

EVALUATION PARAMETERS FOR SOLID WAX PERFUME

1. Appearance:

In solid wax perfume the wax deposition gives the oil a cloudy appearance and colour of the perfume is depend on ingredients used in its preparation ^[4].

2. Spreadability test:

Cream base should spread easily without too much drag and should not produce greater friction in the rubbing process. The spreadability values were found to be in the range of 9.0 to 31.02 gcm/s.

3. Irritancy test:

The most common problems observed with fragrance ingredients, either through use of a perfume or a fragranced consumer product, are skin allergies and skin irritations ^[12]. Many people complain about intolerance or rashes to perfumes or perfumed products.

4. Fragrance sensitivity test:

The most common problems observed with fragrance ingredients, either through use of a perfume or a fragranced consumer product, are skin allergies and skin irritations. Many people complain about intolerance or rashes to perfumes or perfumed products ^[8]. It is either an irritation or an allergic reaction to some chemical, or combination of chemicals, in a product.

5. Melting point:

The determination of the melting point serves as a crucial quality assessment for solid perfume items ^[9]. This examination signifies the durability of the product's quality throughout the stages of production, storage, and utilization. The melting point of the product is directly proportional to its hardness. This relationship is observed as the rheological properties decrease with an increase in cacao butter concentration ^[8].

Consequently, the high concentration of cocoa butter leads to a decrease in the melting point of solid perfume products.

6. Essential Oil Refractive Index:

Refractive index is one of the parameters of quality analysis of essential oil based on SNI 06-2385-2006. Refractive index of geranium oil^[11] was about 1.46400-1.47200.

7. Homogeneity of Solid Perfume:

Homogeneity test of solid perfume was conducted by applying the samples to a flat glass surface^[10]. This test shows there is no coarse grains on the surface of the glass. According to Nurany et al (2018) homogeneous product had no coarse grain on the glass surface that had been smeared by the product.

8. Hardness Level of Solid Perfume Formulation:

The inclusion of cocoa butter resulted in the softening of the solid perfume product^[9]. The presence of cocoa butter in the formulation played a crucial role in adjusting the texture and melting point^[8]. Additionally, the cocoa butter influenced the composition of the solid perfume crystals, leading to a more stable polymorphic arrangement. Increasing the amount of cocoa butter enhanced the consistency and density properties. Furthermore, cocoa butter filled the gaps between the mixed ingredients, facilitating a lubrication process that ultimately decreased the rheological properties, texture, and thermal properties^[10].

RESULT AND DISCUSSION

Table no.1: Result of solid wax perfume

CONCLUSION

SR.NO.	NAME OF THE TEST	SPECIFICATION	OBSERVATION
1	Appearance	Cloudy appearance	Cloudy appearance
2	Texture	Smooth, Slippery, Pearlescent	Smooth, Slippery, Pearlescent, scrubby
3	Hardness level	Soft, Non-greasy	Soft, Non-greasy
5	Irritancy test	Non-irritant	Non-irritant
6	Fragrance sensitivity	Non-allergic	Non-allergic
7	Melting point	Average 7-8 rubout	Average 5 rub outs
8	Spread ability	Complete/Moderate/Low	Complete

There have been significant advancements in the development of new fragrances and scents. However, these advancements have not been applied to the formulation of perfumes. Solid perfumes have been available in the market for some time, but they have not gained much recognition due to their rigid nature. While solid cosmetics with fragrant substances are not new, solid perfumes have not achieved the same level of fame. Solid perfumes, also known as perfumed cream, have been widely used in Turkey and Bulgaria. Whether prepared in-house or in a laboratory, solid perfumes are made from all-natural ingredients. They can be assessed in a similar manner to creams, considering their therapeutic and additive properties. Geranium oil in beeswax solid perfume offers a delightful and enduring fragrance, combining the soothing qualities of beeswax with the floral notes of geranium to create a convenient and naturally scented solid perfume with spicy note of cedarwood oil. Coconut oil has its therapeutic value and used as carrier oil. Essential oils are typically used in diluted form as a precaution against potential toxicity and allergic reactions. Each type of essential oil possesses unique therapeutic properties and many of them have pleasant fragrances. These fragrant substances make them suitable for use in aromatherapies. Solid perfumes are also popular due to their convenient portability and storage. They are particularly favored by individuals who prefer fewer overpowering scents compared to the strong fragrances found in most perfumes on the market. The intensity of the perfume's fragrance can be adjusted to suit individual preferences, resulting in variations in scent strength among different people. Solid perfume remains a relatively understudied subject, with much more research needed to establish comprehensive information about it.

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