SURVEYING CONSUMER ACCEPTANCE OF TEXTILE PRODUCTS WITH FRAGRANCE FINISH: A DETAILED REVIEW

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Abstract: Fragrance finishing of textiles is an area with untapped potential which has been growing at an enormous rate. The use of scents to change moods, evoke emotions and stimulate certain senses has been there for ages. Building up from that, textiles have started being infused with scents and used in domestic and industrial application. The purpose of this research is to cover all aspects of fragrance finishing. The literature review covers extensive topics like the basic concept of aromatherapy, needs of fragrance finishing, application methods and our current market scenario. The latter part of this study deals with a survey that sheds light on the research gap identified as lack of market awareness and acceptance. Chi-square was the statistical tool used for relating factors like gender, age group and income group to buying behaviour of people when it comes to fragrance finished textile products.

Keywords: aromatherapy, textile finish, fragrance finish, cosmetotextile, infused textiles.

1. INTRODUCTION

The advances in the textile segment have been commendable over the last decade. From the use of new dyes and printing techniques to applying special chemical/natural finishes to fabrics, the average consumer nowadays has a lot to choose from. The exceeding importance that general masses are giving to beautification, health and externally appealing properties has given a boost to chemically engineered textiles and products. In line to that, chemical product design (CPD) is something which is birthed from changing customer needs and the upcoming generation to satisfy target specifications and performance. [1–5] Various books [1–3] also highlight the need of
adapting chemical engineering (ChE) processes to the new times of aware consumers that constantly demand more.

To answer the need of new and innovative textile products, functional and value-added aspects are being incorporated extensively. Such products can be made by using new technology, chemicals and finishes. They can also be made by chemically processing ordinary textiles, to make them have extra-ordinary functional properties. [6, 7]

How does fragrance finish come into the picture? Our sense of smell is 10,000 times more active than other senses and the reaction time to a particular time of scent is immediate. As reported by researchers, use of perfumes or other forms of fragrances have a long history in relations to human beings. [8]

Various papers talk about how fragrance finish can be used for boosting fabric popularity. One such paper [9] highlights how the typical kerosene-like smell of certain chemicals added during jute processing, affect consumer’s acceptance of jute-based products. This scenario poses a significant issue when it comes to various such processed textiles used for products like home textiles and related products.

Apart from refining chemically processed textile products, research has also been done in how fragrance finish in textiles (especially scents like lavender) can lead to a good sensory and emotional response from the end consumer [10, 11]. On the aesthetic side of fragrance finishing too, the applications are diverse. Home textiles such as bed-sheets, curtains, towels, pillowcases, quilt covers, etc. are suitable for being treated with scents like lavender, rose and sandal, thus helping in eliminating tiredness and fatigue [12].

Tapping into this category of textiles and apparel shows great potential for exploration and growth. [13] Recently, fragrances have become available that can be readily added on the textiles and after finishing and fixation, they emit a pleasant fragrance. The role of the textile finisher has become very demanding. It now requires the right balance between the compatibility of different finishing products and treatments and the application processes used to provide textiles with desirable properties, so that a good profit is made and the consumer is impressed too.

Even after all of these benefits and interesting applications, properties like fabric performance, durability of the fragrance and laundering properties pose an area of concern. Different scents affect these properties in different ways [12] sure, but the real question not widely addressed by many is the consumer acceptance of these textile products.

This paper specifically goes into reviewing fragrance finishing as a milestone in chemical finishing of textiles. A survey showcases consumer behaviour and preferences for the same, while statistical analysis has been carried out to highlight certain factors that might or might not affect buying behaviour when it comes to purchasing such products. The real challenge is making a product worth the money being spent on its purchase.

2. REVIEW OF LITERATURE

2.1. Textile Finishing

Textile Finishing is a part of fabric manufacturing wherein the material is subject to different types of physical and chemical treatments. These treatments may impart aesthetic, sensory or functional value additions to the fabric. [14]

2.1.1. Fragrance Finish

Aromatherapy is quickly becoming a favourite form of complementary and alternative medicine (CAM). With the upcoming advancements in this sector, one can attempt self-therapy at home too. Especially when it is introduced through textile products, aromatherapy is made easy wherever needed. Micro-encapsulation can effectively control the release rate of the fragrance compounds and essential oils as required, thus keeping a check on longevity of volatile substances as well. [15]

2.1.1.1. Effects of fragrance

Over the last decade, a lot of research has been done across various countries over how fragrance affects the human mind. The research spanned over a considerable effect fragrance had on a human’s feelings, emotions, moods and even physiological and cognitive factors [16].

Another researcher, Belaiche, carried out a series of experiments to observe the effect of 42 essential oils on 12 of the most common pathogenic microorganisms. He observed that essential oils with a higher Aromatic Index could help in preventing some of these pathogens [19]. Certain researches were also carried out on human volunteers [20] and even mice [21] to see the relaxing or stimulating effect that certain scents like lavender brought out. Furthermore, interesting studies were also carried out that showcased the influence of certain odours over the mental state and even arousal state of humans [22].
**Table 1**: The pharmaceutical effects of essential oils [17,18]

<table>
<thead>
<tr>
<th>Effects</th>
<th>Essential Oils</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sedation</td>
<td>Mint, Onion, Lemon, Metasequoia</td>
</tr>
<tr>
<td>Coalescence</td>
<td>Pine, Clove, lavender, Onion, Thyme</td>
</tr>
<tr>
<td>Diuresis</td>
<td>Diuresis Pine, lavender Onion, Thyme, Fennel, Lemon, Metasequoia</td>
</tr>
<tr>
<td>Facilitating</td>
<td>Menses Pine, lavender, Mint, Rosemary, Thyme, Basil, Chamomile, Cinnamon,</td>
</tr>
<tr>
<td>Dismissing</td>
<td>Sputum Onion, Citrus, Thyme, Chamomile, lemon</td>
</tr>
<tr>
<td>Allaying a fever</td>
<td>Ginger, Fennel, Chamomile, Lemon</td>
</tr>
<tr>
<td>Curing Hypertension</td>
<td>Lavender, Oregano, Basil, Chamomile</td>
</tr>
<tr>
<td>Be good for stomach</td>
<td>Pine, Ginger, Clove, Mint, Onion, Citrus, Rosemary, Thyme, Fennel, Basil, Cinnamon</td>
</tr>
<tr>
<td>Diaphoresis</td>
<td>Lavender, Rosemary, Thyme, Chamomile, Metasequoia, pine</td>
</tr>
<tr>
<td>Expelling wind</td>
<td>Ginger, Clove, Onion, Citrus, Rosemary, Fennel, Lemon</td>
</tr>
<tr>
<td>Losing weight</td>
<td>Onion, Cinnamon, Lemon</td>
</tr>
<tr>
<td>Relieving pain</td>
<td>Vanilla, lavender, Mint, Onion, Citrus, Rosemary, Chamomile, Cinnamon, Lemon</td>
</tr>
<tr>
<td>Detoxification</td>
<td>Lavender</td>
</tr>
<tr>
<td>Curing diabetes</td>
<td>Vanilla, Onion, Chamomile, Lemon</td>
</tr>
<tr>
<td>Stopping diarrhoea</td>
<td>Vanilla, Ginger, Clove, lavender, Mint, Oregano, Rosemary, Thyme,</td>
</tr>
<tr>
<td>Curing rheumatism</td>
<td>Lavender, Onion, Citrus, Rosemary, Thyme, Metasequoia</td>
</tr>
<tr>
<td>Urging sexual passion</td>
<td>Pine, Ginger, Clove, Mint, Onion, Rosemary, Thyme, Fennel, Relieving</td>
</tr>
<tr>
<td>Promoting appetite</td>
<td>Clove, lavender, Mint, Onion, Citrus, Rosemary, Fennel Basil, Chamomile,</td>
</tr>
<tr>
<td>Relieving cough</td>
<td>Rosemary</td>
</tr>
</tbody>
</table>

**Table 2**: The sedative effects/emotions associated with essential oils [23]

<table>
<thead>
<tr>
<th>Emotion</th>
<th>Essential Oils with the Sedative Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anxiety</td>
<td>Benzoin, Lemon, Chamomile. Rose, Cardamom, Clove, Jasmine</td>
</tr>
<tr>
<td>Lament</td>
<td>Rose</td>
</tr>
<tr>
<td>Stimulation</td>
<td>Camphor, Balm oil</td>
</tr>
<tr>
<td>Anger</td>
<td>Chamomile, Balm oil. Rose, Ylang Ylang</td>
</tr>
<tr>
<td>Wretchedness</td>
<td>Basil, Cypress, Mint, Patchouli</td>
</tr>
<tr>
<td>Allergy</td>
<td>Chamomile, Jasmine, Balm oil</td>
</tr>
<tr>
<td>Distrustfulness</td>
<td>Lavender</td>
</tr>
<tr>
<td>Tension</td>
<td>Camphor, Cypress, Vanilla. Jasmine. Balm oil. Lavender, Sandalwood</td>
</tr>
<tr>
<td>Melancholy</td>
<td>Basil, Lemon, Chamomile, Vanilla, Jasmine, Lavender, Mint, Rose</td>
</tr>
<tr>
<td>Hysteria</td>
<td>Chamomile, Balm oil, Lavender, Jasmine</td>
</tr>
<tr>
<td>Mania</td>
<td>Basil, Jasmine, Pine</td>
</tr>
<tr>
<td>Irritability</td>
<td>Chamomile, Camphor, Cypress, Lavender</td>
</tr>
<tr>
<td>Desolation</td>
<td>Jasmine, Pine, Patchouli, Rosemary</td>
</tr>
</tbody>
</table>

2.1.1.2. Needs of Fragrance Finish

Almost every culture has combined aromatherapy with textiles for human use, and successfully so. Egyptians seem to have pioneered this area by extracting aromatic plant material and incorporating the same into textiles by using sun for infusing the same. Europeans used aromatherapy to ward off plagues and other airborne infections by the use of aromatherapy in medieval times [15].

In between burning aromatic herbs to protect against prevalent diseases [24] and incorporating a signature fragrance for couture, aromatherapy be-
came popular and so did the relevance of fragrance finishing. The textile industry, especially the Korean textile industry, started investing into functional fragrant finishing like stress-relieving scents in business outfits and kids’ clothing to relaxing scents in bed linens and bedroom textiles [25].

The developments of the aromatherapy phenomenon diversified along four basic avenues [18]:

- Medical and holistic medical aromatherapy (especially France)
- Popular and esoteric aromatherapy (majorly western societies)
- Aromatherapy applied during massage (popular in Great Britain)
- Scientific study of fragrance, as encouraged by the Fragrance Research Fund

2.1.1.3. Application of fragrance finish

Now that the importance and highly influential abilities of fragrance have been mentioned, application methods of the same on fabric need to be listed. There are 3 primary methods for the same, as discussed in detail below:

2.1.1.3.1. Padding

The fabric is padded with the fragrance solution. Padding pressure 2kg/cm². It is dried and cured at 70°C-120°C (1-5 min.). The fragrance solution used for this process is 10% the weight of fabric [26,27,28].

2.1.1.3.2. Jet Spray

Exhaust at 40°C for 20 - 30 min (fragrance is sprayed by means of a spray gun). Amount of fragrance solution used is 5-10% of the weight of fabric [26,27,28].

2.1.1.3.3. β-microencapsulation

β-cyclodextrin is used as an inclusion complex. The fragrance with β -cyclodextrin inclusions are formed by mixing a solution containing alcohol and distilled water in 1:3 ratio. The solution is emulsified with a high-speed mixer at a speed of about 10,000 rpm for 5-8 minutes. The emulsified system is transferred into a flask. The fragrance alcohol solution is added into the emulsified solutions and stirred at a temperature of 40°C for around 2 hours [29,30,31].

2.2. Advantages of fragrance finishing

- Protection of the enclosed fragrance or essential oil, imparting aromatherapy
- Improved storage life
- Conversion of a liquid component to a dry solid form
- Odour masking and dust control
- Controlled diffusion of fragrance
- The tearing strength of the fabric increases [32,33,34].

2.3. Disadvantages of fragrance finishing

- Fully durable fragrance finish hasn’t been achieved yet
- Majority fall under semi-durable category
- Air permeability decreases
- Stiffness is more due to added layer/component on textile base [32,33,34,35].

2.4. Market Scenario

There are various companies like Resil Chemicals Pvt. Ltd., Archroma India Pvt. Ltd., SAREX, etc. that are trying to make a name for themselves in this area. Resil Chemicals Pvt. Ltd. uses a trademarked technology called Celessence that encapsulates fragrance molecules and applies them to fabric. The molecules get released on movement and the durability of this finish is 10 washes.

SAREX has a concept called Superfresh that provides Lavender, Jasmine and Rose scent for application. Tanatex Chemicals Pvt. Ltd. provides additional scents like coffee, limone, strawberry and vanilla bouquet, through a trademark technology called Bayscent.

All in all, there are many chemical finishing companies (Indian and international) that are delving into this interesting concept as there is less competition and more scope for creative value addition.

2.5. Research Gaps and Objectives

There is enough evidence to support that fragrance finish is something new and creative and has a huge potential to become a best-selling product. Also, the effects of different types of fragrances were taken into consideration and their impacts on the human mind and body.

Out of all the literature used for review, it was observed that the market acceptance of fragrance finish was a topic that wasn’t covered in-depth.

The objective of this research is to identify the awareness and acceptance of textile products with fragrance finish in the market. It also aims at correlating personal factors to the buying behaviour of the consumer, using statistical tools.
3. PROPOSED METHODOLOGY

The methodology followed was a survey to evaluate responses and figure out exactly what contributes to a customer’s buying decision when it comes to purchasing a product with fragrance finish. The target audience would be people over 15+ years of age, with no limitations to geographical location, income group and other personal factors.

Another topic covered in the survey is the acceptance of various scents that could be incorporated into products, so as to come up with all popular options. Pareto charts show most of the findings in an efficient manner.

Chi square test was conducted for relating gender to acceptance of the product under discussion. It was also used for relating gender, income group & age group to the buying decision of people.

3.1. Research Deliverables

- Market survey showing consumer acceptance
- Comparison of popularity of fragrances
- Identification of factors affecting buying decision

Have you heard of cosmetotextiles?

<table>
<thead>
<tr>
<th>Yes</th>
<th>34 (47.9%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>37 (52.1%)</td>
</tr>
</tbody>
</table>

Have you come across any textile product with fragrance finish?

<table>
<thead>
<tr>
<th>Yes</th>
<th>42 (59.2%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>29 (40.8%)</td>
</tr>
</tbody>
</table>

Would you be interested in purchasing a textile/apparel product with fragrance finish?

<table>
<thead>
<tr>
<th>Maybe</th>
<th>18 (26.4%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>51 (71.6%)</td>
</tr>
<tr>
<td>Yes</td>
<td>3 (4.0%)</td>
</tr>
</tbody>
</table>

Would you be willing to pay extra for such products?

<table>
<thead>
<tr>
<th>Yes</th>
<th>38 (53.5%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maybe</td>
<td>24 (33.8%)</td>
</tr>
<tr>
<td>No</td>
<td>7 (10.7%)</td>
</tr>
</tbody>
</table>

How much extra would you be willing to pay for such a product?

<table>
<thead>
<tr>
<th>35-50%</th>
<th>6 (8.7%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-20%</td>
<td>10 (14.3%)</td>
</tr>
<tr>
<td>91.3%</td>
<td>65 (93.3%)</td>
</tr>
</tbody>
</table>

Fragrance finish is a semi durable finish and gets worn off over wash cycles. Do you think this can DISCOURAGE your buying decision?

<table>
<thead>
<tr>
<th>Highly Likely</th>
<th>10 (14.7%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Likely</td>
<td>14 (20.7%)</td>
</tr>
<tr>
<td>Neutral</td>
<td>18 (26.4%)</td>
</tr>
<tr>
<td>Not at all</td>
<td>49 (73.3%)</td>
</tr>
</tbody>
</table>

Figure 1: Awareness on cosmetotextiles amongst consumers

Figure 2: Awareness on fragrance finished textile products amongst consumer

Figure 3: Acceptability of fragrance finished textile/apparel products

Figure 4: Value study for fragrance finished textile products

Figure 5: Value mapping for fragrance finished textile products

Figure 6: Buying behaviour with respect to durability of fragrance finishing on textiles
4. RESULTS AND DISCUSSION

The responses received were from 71 people, from all around the country. Males responded more than females and the major age group to respond was people from 15-20 years of age.

Not many people know about cosmeto-textiles, yet are very willing to buy fabrics with fragrance finish. It is evident that the market acceptance of this product is quite good, even though the awareness isn’t.

Using Chi-square test, it was found that family income also does not affect the buying decision of the person. It was observed that 72.2% people were interested in purchasing a textile/apparel product with fragrance finish. 25% were unsure about it, and the rest said No.

Only 54.2% were keen on paying extra for such a product, while 33.3% of them were unsure of it and 12.5% were not at all keen.

An important observation is that 91.4% of people would like to pay 10-20% extra for this product, with 8.6% willing to pay 35-50% and none offering to pay more than 50%.

Considering that fragrance finish is a semi-durable finish, this nature of the finish made 19.4% people highly discouraged to buy the product and 56.9% somewhat discouraged. 18.1% of people were neutral about this and the rest weren’t really affected by this.

Regarding popularity of fragrances, lavender and floral scents had the most supporters with 61.1% & 59.7% votes respectively. These were followed by Mint, Citrus, Fruity and Green tea scents. These were the options given in the survey as they were out in the market already, but it was interesting to see responses with their own choice of scent, ranging from rose, vanilla to sandalwood and chocolate.

The categories most in demand with this finish were home/lifestyle products and socks, gloves, handkerchiefs with 69.4% and 51.4% votes respectively, followed by activewear (47.2%) and intimate wear (45.8%).

4.1. Statistical Analysis

Chi-square test was the statistical tool to analyze relationship between gender and income group to buying behaviour of consumers.

4.1.1. Relationship between gender and buying behaviour

Null hypothesis: Gender has no effect whatsoever on the buying behaviour of the consumer.
4.1.2. Relationship between income group and buying behaviour

Null hypothesis: Income group has no effect whatsoever on the buying behaviour of the consumer.

Observed values:

<table>
<thead>
<tr>
<th>Income group</th>
<th>Yes</th>
<th>No</th>
<th>Maybe</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Below 5 lacs</td>
<td>26</td>
<td>0</td>
<td>4</td>
<td>30</td>
</tr>
<tr>
<td>5-15 lacs</td>
<td>17</td>
<td>1</td>
<td>11</td>
<td>29</td>
</tr>
<tr>
<td>15+ lacs</td>
<td>8</td>
<td>1</td>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>Total</td>
<td>51</td>
<td>2</td>
<td>18</td>
<td>71</td>
</tr>
</tbody>
</table>

Expected table:

<table>
<thead>
<tr>
<th>Income group</th>
<th>Yes</th>
<th>No</th>
<th>Maybe</th>
</tr>
</thead>
<tbody>
<tr>
<td>Below 5 lacs</td>
<td>21.54</td>
<td>0.845</td>
<td>7.60</td>
</tr>
<tr>
<td>5-15 lacs</td>
<td>20.83</td>
<td>0.81</td>
<td>7.35</td>
</tr>
<tr>
<td>15+ lacs</td>
<td>8.619</td>
<td>0.33</td>
<td>3.048</td>
</tr>
</tbody>
</table>

Χ² Table:

<table>
<thead>
<tr>
<th></th>
<th>0.92</th>
<th>0.084</th>
<th>1.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.704</td>
<td></td>
<td>0.044</td>
<td>1.81</td>
</tr>
<tr>
<td>0.044</td>
<td></td>
<td>1.36</td>
<td>0.075</td>
</tr>
</tbody>
</table>

Χ² value= 7.49
Degree of freedom (α)= (3-1)*(3-1)=2*2=4
Tabulated value= 9.487
Since the calculated value is less than the tabulated value, we fail to reject the null hypothesis (7.49<9.487)

Hence, the income group has no effect on the buying behaviour of the customer.

While comparing the buying behaviour according to gender, the Χ² value was calculated to be 0.315 with a degree of freedom equal to 2. Tabulated value was found to be 5.991.

While comparing the buying behaviour according to income group, the Χ² value was calculated to be 7.49 with a degree of freedom equal to 4. Tabulated value was found to be 9.487.

For both cases, the calculated value was less than the tabulated value, hence failing to reject the null hypothesis.

Hence, gender and income have no effect on the buying behaviour of the consumer.

5. CONCLUSION

The global marketplace is continuously changing and so is the demand of consumers. With fragrance finishing, a whole new option of an “interactive” product will be given to consumers. Even though the research done in this area is quite extensive, there are questions that have been left unanswered.

The durability of fragrance finish on textile products remains a vague topic. As per many studies, it is evident that this type of a product only has the capacity to last a few washes.

The storage of such textiles also remains a big question as pointed out by one study [15]. It highlights the importance of proper wash care and handling instructions for products of such nature. Also, it is important to inform consumers to keep these products in isolation so as to avoid the mixing of scents from another product.

Value addition on textile substrates is playing a very important role in manufacturing of fabric. Having said that, fragrance finish being a fresh and interesting take on textiles, encouraging more experimentation and production in this domain. As shown in the study, consumers are open to using a product of this kind, regardless of their income group and gender. This widens the customer base a lot and showcases

With the right mix of fabric composition, construction, finishing and properties, we have great potential for this domain of new age textile products.

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ANNEXURE

Survey questions & options

a) Email ID

b) Gender
   a. Male
   b. Female
   c. Transgender
   d. Prefer not to mention

c) Age group
   a. 15-25 years
   b. 25-35 years
   c. 35-50 years
   d. 50 years and above

d) Family Income (p.a)
   a. Less than 2.5 lacs
   b. 2.5-5 lacs
   c. 5-10 lacs
   d. 10-15 lacs
   e. 15 lacs and above

e) Have you heard of cosmetotextiles?
   a. Yes
   b. No

f) Have you come across textile product with fragrance finish?
   a. Yes
   b. No

g) Would you be interested in purchasing a textile/apparel product with fragrance finish?
   a. Yes
   b. No
   c. Maybe

h) Would you be willing to pay extra for such products?
   a. Yes
   b. No
   c. Maybe

i) How much extra would you pay willingly?
   a. 10-20%
   b. 20-35%
   c. 35-50%
   d. 50% and up

j) Fragrance finish is a semi durable finish and gets worn off over wash cycles. Do you think this can discourage your buying decision?
   a. Highly likely
   b. Likely
   c. Neutral
   d. Not likely
   e. Least likely

k) What sort of fragrance are you more likely to buy? (top 3 preferences)
   a. Lavender
   b. Citrus
   c. Mint
   d. Fruity
   e. Green tea
   f. Others (please specify)

l) In which of the following categories, would you prefer such type of product? (top 3 preferences)
   a. Home / lifestyle (bedsheets, upholstery, tablecloths, curtains)
   b. Sportswear/ Activewear (tights, tracks, tees, jerseys)
   c. Casual wear
   d. Formal wear
   e. Socks & gloves
   f. Intimate wear / undergarments

______________________________
Primljen/Rceived on: 04.10.2021
Revidirano/Revised on: 24.11.2021
Prihvaćeno/Accepted on: 25.11.2021.