

## CONFERENCE PROCEEDING

**Minsyafah: Muslimah Smart Towel**

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**Abstract**

Muslim women nowadays have different careers and roles which demand them to be practical and efficient in daily life. For working mothers especially, they have too many things to do and do not get enough help. Therefore, they need a multi-function item that can help them complete their duties easier. That is why every Muslim woman need Minsyafah: Muslimah Smart Towel which gives seven different functions. We did some research on microfiber fabric to find out this fabric's benefits and eventually chose it as Minsyafah's main material. Then, we did the designing to innovate an ordinary microfiber towel into a multi-function and smart towel. Due to Minsyafah's multi-functions, we ran a few experiments on each function. Other than that, we ran another experiment to test the effectiveness of microfiber fabrics on our product. Our first experiments results show that Minsyafah is functioning well as an efficient towel, instant headscarf, handy towel, sweater, nursing cover, baby bottle warmer and travel pillow. Our second experiment result shows that microfiber fabrics are the best towel fabrics due to its characteristics which benefit users. If the seven different functions of Minsyafah are used in daily life, it will surely help to ease the modern life of Muslim women and save their money because it can replace a few necessities. In a future study, it is recommended that more research should be done on the exact type of microfiber fabrics to be used for our Minsyafah, to determine the average shelf life of Minsyafah.

**Keywords:** *multi-function, smart, microfiber, towel, awrah*

**INTRODUCTION**

Towel problems include funky smell, crustiness, inability to absorb water, becoming stiff and rough, and taking a long time to dry. Microfiber towel can solve all these problems due to its excellent characteristics i.e. super absorbent, quick-dry, breathable, lightweight etc. [Hosseini Ravandi S.A. *et al*, 2011] We also found that microfiber is a synthetic fiber and one of the best fabrics for towel material. [Lim K.S. *et al*, 2012]

In this project, we innovate an ordinary towel into a multi-function towel called Minsyafah. In some building, bathrooms are located outside the bedroom such as boarding school dormitories, university hostels, houses, and apartments. In this situation, using Minsyafah could help Muslim women covering their awrah properly as it can be used as an instant headscarf, as well as lessen the burden to bring toiletries with its' attached pocket.

Do Muslim women who use Minsyafah will truly get the seven benefits of Minsyafah? Minsyafah is not an ordinary towel, it can be used as a bath towel as well as an instant headscarf. It can also be worn while doing simple outdoor activities. Besides, the jacket zip makes Minsyafah functional as a sweater and nursing cover.

Additionally, we attached two pockets on Minsyafah to make it a handy towel. Furthermore, we plied a few snap buttons at certain parts of Minsyafah so that it can be used as a travel pillow and baby bottle warmer. The snap buttons make Minsyafah compact in size and easy to be brought for travelling.

## **MATERIALS AND METHODS**

### **Materials**

<b>No</b>	<b>Materials</b>	<b>Quantity</b>
1	Microfiber towel - 70 cm x 140 cm	1 piece
2	Microfiber towel - 20 cm x 50 cm	1 piece
3	Plastic jacket zip - 14"	1 pair
4	Plastic snap buttons	4 sets

### **Method of Producing**

- 1) Cut a 'microfiber' towel to make the two pocket sizes:
  - 1 pocket of size 10 cm (P) x 16 cm (L)
  - 1 pocket of size 15 cm (P) x 20 cm (L)
- 2) Sew the edges of the two pockets.
- 3) Sew a 14 'inch jacket zipper on the edge of a 70 cm x 140 cm microfiber towel.
- 4) Indicate the area to be placed two pockets and the 'snap button' type valve.
- 5) Sew two pockets that have been provided on the marked area on a 'microfiber' towel measuring 70 cm x 140 cm.
- 6) Attach the valve button to the marked area.

## **RESULTS AND DISCUSSION**

### **Experiment on Functionality of Minsyafah**

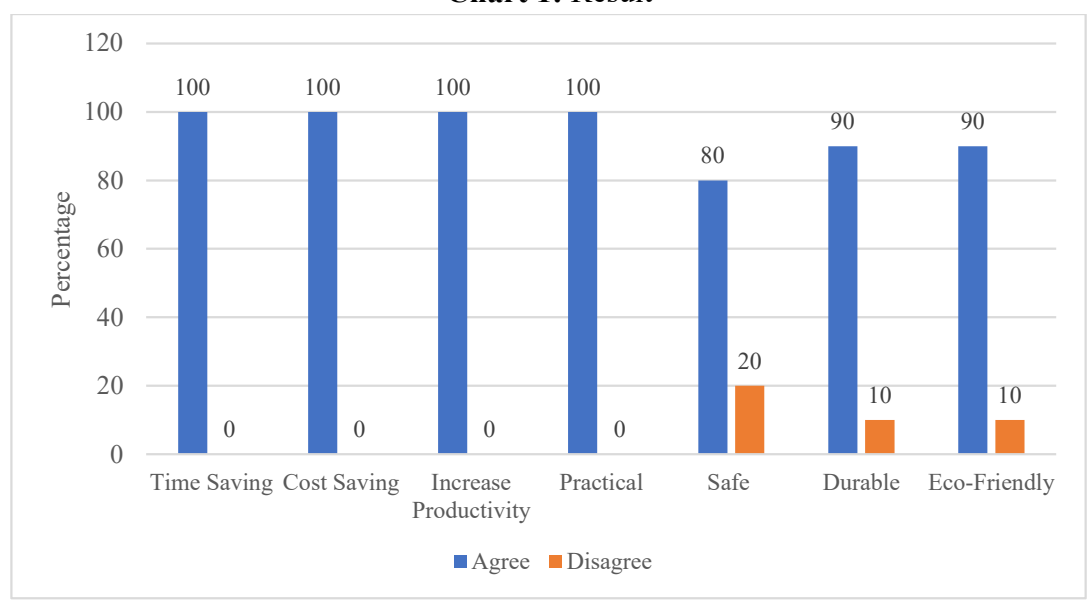
We ran an experiment on the functionality of Minsyafah. For this purpose, we chose 1 boarding school student to be the respondent in our experiment on functionality of Minsyafah as an efficient towel, instant headscarf, handy towel, sweater, and travel pillow. The result shows that Minsyafah is functioning well.

### **Experiment on Effectiveness of Microfiber Fabric**

We ran a comparison experiment between microfiber towel with cotton towel to find out the effectiveness of microfiber fabric. The result shows that microfiber towel has six more advantages than cotton towel i.e. water absorbent, quick-dry, hypoallergenic elements, durability, softness, and better cleaning fabric.

**Questionnaire of Feedback on Minsyafah Efficiency**

**Chart 1: Result**



**CONCLUSION**

Finally, it is concluded that Minsyafah: Muslimah Smart Towel is a unique and rare towel available in the market because of its multi-functions i.e. an efficient towel, instant headscarf, handy towel, sweater, nursing cover, baby bottle warmer and travel pillow with its stylish design which meet the needs of users especially Muslim women in their modern, active and Islamic lifestyle.

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