

**The effect of some building structural factors of fabrics of workers uniform at sweets factories on some functional characteristics of them.**

**Pro.dr./ Ghada Mohamed El-Sayad**

**Assist.pro.dr./Fayrouz Abo Al-Fetoh Al-Gamal**

Weaving and spinning department-faculty of applied arts-Damietta university.

Engineer /Heba Ahmed Abed.

**Abstract;**

The research aims to do experimental study to show the effect of different textile structures on the functional performance of fabrics of workers uniform at sweets factories, 12 samples were made ( 1/1 plain-atlas 4-100% cotton-mixed 50%cotton,50% polyester -100% viscose - 42-60 weft density) and after that they were tested to determine the functional performance of the produced fabrics, the data were statically treated.

**Results;**

- 1- 1/1 plain is the best to determine the total quality of all features of cotton mixed with polyester with weft density 60/inch. Quality factor 81.17%
- 2- Atlas 4 is the least quality with viscose with weft density 42/inch , Quality factor 66.14%

**Research problem;**

fabrics of workers uniform at sweets factories can't handle the factors inside the production hall where they are subjected to ( heat-comfort- resistance) those factors are affecting the functional performance.

**Research objectives;**

- 1- Study the effect of some building structural factors of fabrics of workers uniform at sweets factories on some functional characteristics of them.
- 2- Improve the functional characteristics of fabrics of workers uniform at sweets factories in Damietta governorate.

**Research importance;**

- 1- This study serves a huge sector from the social sectors in Egypt and Damietta

governorate which are the workers category who work in sweet factories.

- 2- The importance of the worker uniform and cloth as they have direct effect on the body and psychological comfort and a protection method for the worker.

**Research methodology;**

Experimental method; in producing fabrics for workers uniform at sweets factories in

Damietta governorate and study the possibilities of improving the functional characteristics

And pick the best textile and qualifications that fit with the uniform.

**Research hypothesis;**

- 1- Type of material affects the functional characteristics of workers uniform at sweets factories.
- 2- The textile structure affects the functional characteristics of workers uniform at sweets factories.

The weft density affects the functional characteristics of workers uniform at sweets factories.