

**The Effect of Altering some Structural Elements on Properties of  
Summer  
Shirts Fabrics -With a Constant Weight**

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**Abstract**

Light clothes represent a very important sector in textile industry and in our practical life all across the year that is they are worn in summer on their own, and in winter and other seasons as undergarments to keep us warm. This study takes a special interest in the elements of weave construction of light clothes, and the effect of these elements on both natural and mechanical characteristics required for this type of cloth sustaining the same weight of the square meter.

Fixed weight is achieved utilizing two variables; different counts of wefts and different densities, which are accomplished by using the mathematical methodology of sustaining the weight of these counts using different densities. Another variable is added to the study which is the material of the weft used. Also, the use of the same type of material and density of the warp so, the same specifications are used for all the samples. These specifications are: (60/2 cotton, 32 thread/ cm).