

## تأثير اختلاف التركيب النسجي ونوع الخامة على خواص الأداء الوظيفي لأقمشة الدينيم المزدوجة

### The Effect of Altering Weave Structures and Martial Type on the Performance Efficiency of Double Denim Fabric

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#### Abstract

The performance efficiency for any kind of fabrics are depending on the natural and mechanical properties which fit on these actions, and all of these properties can be adapt according to the fabric constriction. Denim fabrics are changing according to the changing of fabric content like weft NE and weft materials also the weave structures especially on those fabrics produced by the double weave. And in this research we discussed the effect of double weave structures and weft martials type on the performance efficiency of denim fabrics , and the aim of that is to catch suitable weave structures and best material types to get the perfect performance efficiency, and we did that over producing -9- samples with three different weave types (sateen 4 at face and twill 2/2 at back – twill 3/1 at face and plain weave 1/1 at back – twill 2/2 at face and twill 3/1 at back) and we used three different types of weft materials (viscous at face and cotton at back – viscous at face and polyester with elastane spandex at back – cotton at face and cotton at back ) and to evaluate those samples we did some laboratory tests to measure natural and mechanical tests according to global test standard.

#### Key Words:

- Denim Fabric - Performance Efficiency - Double Weave