FTT 2014
INTERNATIONAL CONFERENCE on
FUTURE TECHNICAL TEXTILE

MARMARA ÜNİVERSİTESİ
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6th INTERNATIONAL ISTANBUL TEXTILE CONFERENCE

Future Technical Textiles (FTT 2014)

October 15-17, 2014

Marmara University Conference Center
The Sultanahmet Campus , Istanbul, TURKEY
ITA R&D CENTRE, Istanbul, TURKEY

Book of Abstracts

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We would like to thank our sponsors for their generosity and assure them that their contributions are immensely important for the success of the FTT 2014 Conference.

Prof. Dr. Mehmet AKALIN

President of the Conference

Preface

Owing to the success of the 5th International Istanbul Conference which was held in 2005 in Istanbul for the textile and Apparel industry, we want to take this opportunity to discuss and share the new development in textiles and apparel industry by inviting you again to the city where East meets West, to a place steeped in culture and history. Istanbul, is proved to play host on this auspicious occasion to the 6th International Istanbul Conference on Future Technical Textile with a theme of "Recent Advances in Innovation and Enterprise in Textiles and Clothing".

It is clear that the role being played by textile in the applied materials science is considerable and that there is still ample scope for further development. For this conference, the focus is on looking beyond the gadgets and the broad spectrum of papers demonstrates when, where and how technical textiles are selected for their true value and applications. The conference will provide a unique opportunity to meet leading personalities with research, management and technology experience from all over the world and to discuss with them any ideas and proposals in your particular field. The 6th International Istanbul Textile Conference is intended to intensify and promote cooperation.

As usual the papers cover a wide spectrum of issues, all of which are pertinent to the successful use and application of technical textile. The papers represent current research on technical textile issues and within the nine conference themes, contributions cover:

Medical Textiles
Technical Textiles
Smart and Interactive Textiles
Surface Coatings
Advances in Apparel Design
Ecological Textiles
Composites Materials
Textile Innovations
Computer Technology for Textiles and Apparel

A selection of papers – those agreed by a panel of reviewers and the editors, will be published in a special conference edition of the Journal of Marmara University Institute of Pure and Applied Sciences.

I wish you a most interesting conference.

Prof. Dr. Mehmet AKALIN

President of the Conference

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THE EFFECTS OF VARIOUS BLEACHING FORMULATIONS ON PHYSICAL PROPERTIES OF WOOLEN FABRICS

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Abstract

This study is a sub branch of a project investigating the Turkish traditional fabric structures. The mentioned fabrics in this study are called as "Şal-Şepik" in their region, Siirt. "Şal-Şepik" fabric is an important cultural heritage and its usage is based on ancient history. It can be considered as an important cultural product because of having special finishing processes and its raw material. Only madder is used in coloration process of "Şal-Şepik" fabric. In history, the raw material of "Şal-Şepik" fabric is mohair. But over time, the people in that region was started to use wool as raw material. The "Şal-Şepik" fabric was used in daily clothes because it keeps the wearer cool in summer, warm in winter, and it has a durable structure. But today the number of "Şal-Şepik" fabric weavers is in very limited number thus its production and usage tent to disappear.

In this study, three different mostly used bleaching formulations were applied on wool and mohair traditional fabrics. After bleaching process, fabric samples were evaluated in terms of abrasion resistance and thermal resistance respectively. Additionally, the fiber deformation stemming from the wet process was investigated by light microscopy.