



Criminalistics Section – 2004

B91 Comparison of Incinerated Fabrics by Differential Scanning Calorimetry

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After attending this presentation, attendees will be able to compare the fabrics that come partly burnt in the forensic examination.

This presentation will describe solving certain cases of fire and arson on clothing, or fibers or fabrics.

Fibers and fabrics are commonly encountered in the crime examination. In an interesting case received, a piece of burnt and molten fabric piece of clothing and a control clothing were sent to the laboratory for comparison and analysis. It was a case of dowry burning case of a girl in India. The amount of sample was very small wherein other conventional tests could not be carried out. In this context, the differential scanning calorimetry was utilized in identifying the type of fabric. This paper describes the detailed experimental study of the different type of synthetic fabrics by differential scanning calorimetry.

Incinerated, Fabrics, Differential Scanning Calorimetry