**EVALUATION OF THE FIRE PROPERTIES OF TEXTILE MATERIALS**

**FROM NATURAL FIBERS**

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In the presented work we analyzed the properties of fire and burning character of textile cotton and linen fibers and materials from them. Thermogravimetric dependences characterizing the behavior of natural cellulose fibers at elevated temperatures are obtained. The principal possibility of using thermogravimetry in the assessment of fire-hazardous properties of textile materials is shown: thermogravimetric analysis allows to determine the temperature at which the maximum rate of decomposition of cotton and linen cellulose is achieved, as well as the percentage of mass loss of the sample as a result of thermal exposure.

# Key words: fire hazard, textile materials, natural cellulose fibers, thermogravimetric analysis.