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Flammability of Clothing Textiles Final Report

Test Article: Masks
 Laboratory Number: 697589
 Study Received Date: 19 Jun 2013
 Test Procedure(s): Standard Test Protocol (STP) Number: STP0073 Rev 05

Summary: This procedure was performed to evaluate the flammability of clothing textiles by measuring the ease of ignition and the speed of flame spread. The parameter of time is used to separate materials into different classes, thereby assisting in a judgment of fabric suitability for clothing and protective clothing material. The test procedure was performed in accordance with the test method outlined in 16 CFR Part 1610 (a) *Step 1 - testing in the original state. Step 2 - Refurbishing and testing after refurbishing*, was not performed. Also, anhydrous calcium chloride was used as a desiccant rather than anhydrous silica gel. All test method acceptance criteria were met.

Test Article Side Tested: Outside Surface
 Orientation: Lengthwise

Flammability – Type A, Class 1 - Normal Flammability - Average test article flame spread is $\geq 3 \frac{1}{2}$ seconds or no flame spread.

16 CFR Part 1610 specifies that 10 replicates are to be tested if, during preliminary testing, only one test article exhibits flame spread and it is less than 3.5 seconds or the test articles exhibit an average flame spread less than 3.5 seconds. Five replicates are to be tested if no flame spread is observed upon preliminary testing, if only 1 test article exhibits flame spread and it is equal to or greater than 3.5 seconds, or if the average flame spread is equal to or greater than 3.5 seconds. In accordance with the standard, 5 replicates were tested for this study.

Results:

Replicate Number	Time of Flame Spread
1	IBE
2	IBE
3	IBE
4	IBE
5	IBE

IBE = Sample ignited, but extinguished



 Technical Reviewer



 Study Director Benjamin L. Miller, B.S. RM(NRCM)

26 Jun 2013

 Study Completion Date