



Designation: D 5425 – 002

An American National Standard

Standard Guide for Development of Fire Hazard Assessment Standards of Electrotechnical Products¹

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1. Scope

1.1 This guide provides guidance on the development of fire hazard assessment standards for electrotechnical products. For the purposes of this guide, products include materials, components, and end-use products.

1.2 This guide is directed toward development of standards that will provide procedures for assessing fire hazards harmful to people, animals, or property.

1.3 *This fire standard cannot be used to provide quantitative measures.*

2. Referenced Documents

2.1 ASTM Standards:

D 1711 Terminology Relating to Electrical Insulation²

E 176 Terminology Relating to Fire Standards³

E 603 Guide for Room Fire Experiments³

E 1546 Guide for the Development of Fire Hazard Assessment Standards³

E 2061 Guide for Fire Hazard Assessment of Rail Transportation Vehicles³

E 2067 Practice for Full-Scale Oxygen Consumption Calorimetry Fire Tests³

2.2 NFPA Codes and Standards:⁴

NFPA 555 Guide on Methods for Decreasing the Probability of Flashover

NFPA 901 Uniform Coding for Fire Protection

2.3 International Electrotechnical Commission (IEC) Standards:⁵

IEC 60695-1-1 Fire Hazard Testing - Part 1-1: Guidance for assessing the fire hazard of electrotechnical products - General guidelines

IEC 60695-1-2 Fire Hazard Testing - Part 1-2: Guidance for the preparation of requirements and test specifications for assessing fire hazard of electrotechnical products. Guidance for electronic components.

IEC 60695-1-3 Fire Hazard Testing - Part 1-3: Guidance for the preparation of requirements and test specifications for assessing fire hazard of electrotechnical products. Guidance for use of preselection procedures

IEC 60695-4 Fire Hazard Testing - Part 4: Terminology Concerning Fire Tests

2.4 International Organization for Standardization (ISO) Standards:⁶

ISO Guide 52: Glossary of Fire Terms and Definitions 13943 Fire Safety: Vocabulary

3. Terminology

3.1 Use Terminology E 176, ISO Guide 52 13943, and IEC 60695-1-1, ed. 3, 1999-11 as the guides for terminology on fire issues (see 5.1). Where differences exist in definitions, use those contained in Terminology E 176.

3.1.1 Terminology D 1711 should be used as the guide for terminology on issues associated with electrical or electronic insulating materials.

¹ This guide is under the jurisdiction of ASTM Committee D09 on Electrical and Electronic Insulating Materials and is the direct responsibility of Subcommittee D09.21 on Fire Performance Standards.

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² Annual Book of ASTM Standards, Vol 10.01.

³ Annual Book of ASTM Standards, Vol 04.07.

⁴ Available from National Fire Protection Association (NFPA), Batterymarch Park, Quincy, MA 02269-9101.

⁵ Available from International Electrotechnical Commission, 3 Rue de Varembe, Geneva, Switzerland or from American National Standards Institute, 11 West 42nd Street, New York, NY, 10046.

⁶ Available from International Organization for Standardization, P.O. Box 56, CH-1211, Geneva 20, Switzerland or from American National Standards Institute, 11 West 42nd Street, New York, NY, 10046.