



Designation: D 1523 – 9500

An American National Standard

Standard Specification for Synthetic Rubber Insulation for Wire and Cable, 90°C Operation¹

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1. Scope*

1.1 This specification covers a crosslinked insulating compound for electrical wires and cables. The rubber polymer is primarily composed of synthetic rubber.

1.2 This type of insulation is suitable for continuous operation at conductor temperatures not exceeding 90°C in dry locations, and operating voltages not exceeding 2000 V. This insulation may have low-temperature limitations. Consult the manufacturer for specific recommendations for installation.

1.3 In many instances the insulation cannot be tested unless it has been formed around a conductor. Therefore, tests are done on insulated wire in this standard solely to determine the relevant property of the insulation and not to test the conductor or completed cable.

1.4 Whenever two sets of values are presented, in different units, the standard, except values in cases where SI units the first set are more appropriate. The values the standard, while those in parentheses are for information only.

2. Referenced Documents

2.1 *ASTM Standards:*

¹ This specification is under the jurisdiction of ASTM Committee D-9 D09 on Electrical and Electronic Insulating Materials and is the direct responsibility of Subcommittee D09.18 on Solid Insulations, Non-Metallic Shieldings, and Coverings for Electrical and Telecommunications Wires and Cables.

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*A Summary of Changes section appears at the end of this standard.