

UL 19

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Lined Fire Hose and Hose Assemblies

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UL Standard for Safety for Lined Fire Hose and Hose Assemblies, UL 19

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FOREWORD

A. This Standard contains basic requirements for products covered by Underwriters Laboratories Inc. (UL) under its Follow-Up Service for this category within the limitations given below and in the Scope section of this Standard. These requirements are based upon sound engineering principles, research, records of tests and field experience, and an appreciation of the problems of manufacture, installation, and use derived from consultation with and information obtained from manufacturers, users, inspection authorities, and others having specialized experience. They are subject to revision as further experience and investigation may show is necessary or desirable.

B. The observance of the requirements of this Standard by a manufacturer is one of the conditions of the continued coverage of the manufacturer's product.

C. A product which complies with the text of this Standard will not necessarily be judged to comply with the Standard if, when examined and tested, it is found to have other features which impair the level of safety contemplated by these requirements.

D. A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements in this standard, and that involves a risk of fire or of electric shock or injury to persons shall be evaluated using appropriate additional component and end-product requirements to maintain the level of safety as originally anticipated by the intent of this standard. A product whose features, characteristics, components, materials, or systems conflict with specific requirements or provisions of this standard does not comply with this standard. Revision of requirements shall be proposed and adopted in conformance with the methods employed for development, revision, and implementation of this standard.

E. UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. The opinions and findings of UL represent its professional judgment given with due consideration to the necessary limitations of practical operation and state of the art at the time the Standard is processed. UL shall not be responsible to anyone for the use of or reliance upon this Standard by anyone. UL shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Standard.

F. Many tests required by the Standards of UL are inherently hazardous and adequate safeguards for personnel and property shall be employed in conducting such tests.

INTRODUCTION

1 Scope

1.1 These requirements cover single- and multiple-jacketed lined fire hose with or without couplings attached, in the trade sizes of 1-1/2, 1-3/4, 2, 2-1/2, 3, 3-1/2, 4, 5, and 6 inch (38, 45, 51, 65, 76, 89, 102, 127, and 152 mm nominal ID). Single-jacketed hose is intended for service test pressures of 150, 200, or 250 psig (1035, 1380, or 1725 kPa). Multiple-jacketed hose or covered hose judged equivalent to multiple-jacketed hose is intended for service test pressures of 200, 300, or 400 psig (1380, 2070, or 2760 kPa).

1.2 These products are intended for municipal and industrial fire protection purposes. Single-jacketed hose is for use at fire hydrants, standpipes, and similar places. They are not intended for hard usage nor where the hose will be subjected to chafing on rough or sharp surfaces. Multiple-jacketed hose or covered hose judged equivalent to multiple-jacketed hose are for use on pumpers and in places where service conditions require the additional protection against wear afforded by the extra woven jacket or cover.

1.3 The products covered by these requirements are intended to be periodically inspected and maintained while in service, as outlined in the Standard for the Care, Use, and Service Testing of Fire Hose Including Couplings and Nozzles, NFPA 1962.

2 General

2.1 Units of measurement

2.1.1 Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate information.

2.2 Undated references

2.2.1 Any undated reference to a code or standard appearing in the requirements of this standard shall be interpreted as referring to the latest edition of that code or standard.

3 Glossary

3.1 For the purpose of this standard, the following definitions apply.

3.2 EXPANSION RING – A ring that expands against the hose lining, forcing the hose tightly against the coupling.

3.3 FILLER THREADS – The threads or yarns of the jacket or reinforcement that are helically wound throughout the length of the hose at approximately right angles to the warp threads.

3.4 HOSE ASSEMBLY – Hose furnished with couplings attached to each end.

3.5 MULTIPLE-JACKETED HOSE – Hose having two or more woven jackets or a covered hose that complies with all of the performance tests in this standard for multiple-jacketed hose. See 6.3.

3.6 PROOF PRESSURE – A specified pressure applied to new hose to indicate its acceptability at intended maximum normal highest operating pressures.