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UL 1356

OUTLINE OF INVESTIGATION
FOR
PIPE JOINT SEALING COMPOUNDS

Issue Number: 4

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Summary of Topics

This new issue of UL 1356 is being issued to:

- 1) Specify ASTM Reference H as the test fluid to be used to establish a gasoline rating*
- 2) Delete requirements related to establishing a fire hazard rating for the products*
- 3) Add requirements for the evaluation of products for gasoline/ethanol blends, biodiesel and diesel/biodiesel blends*
- 4) Make miscellaneous other revisions to clarify test methods and bring them closer to those in the Outline of Investigation for Polytetrafluoroethylene Plastic Seal Materials, UL 1321*

This issue becomes effective January 29, 2013.

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INTRODUCTION

1 Scope

1.1 These requirements are for use in the investigation of sealing compound products supplied in liquid, semiliquid, or heavy paste (stick) form, where the product is intended to make threaded metal pipe joints tight against leakage. These products are evaluated when applied in accordance with the manufacturer's instructions, to male threads of metal pipe assemblies. The products are rated for use in equipment intended to handle gasoline, gasoline/ethanol blends, diesel fuel, biodiesel/diesel fuel, biodiesel, naphtha, benzene, kerosene, petroleum oils, natural gas, propane, or butane as specified by the manufacturer.

1.2 The investigation includes tests for the sealing effectiveness of the product, and tests to determine that the product does not cause significant corrosion of common metals or adversely affect the electrical continuity of pipe assemblies on which it is used. The investigation also includes analytical tests required for product identification purposes.

1.3 This outline of investigation does not cover the classification of the product in regard to its flammability, the toxicity of the product or its vapors due to flammability or the effect of normal atmospheric conditions on the product while in storage or in use.

1.4 If requested, the sealing of threaded joints in pipe sizes larger than 2 inches may be investigated using appropriate adaptation of tests described in Section 6 – 8. Tests for uses other than those indicated are not within the scope of these requirements.

2 General

2.1 Product application instructions deemed to be adequate for its proper use shall be provided by the manufacturer. The manufacturer shall also provide product composition information in sufficient detail to permit development of an appropriate analytical test program for product identification.

3 Units of Measurement

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