

Subject 87A

May 18, 2018

SUMMARY OF TOPICS

The following topic for the Standard for Power-Operated Dispensing Devices for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85), UL 87A, is being recirculated:

1. Revisions to add C25a test fluid requirements

COMMENTS DUE: JUNE 18, 2018

For your convenience in review, proposed additions to the previously proposed requirements dated (2018-03-30) are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Revisions to add C25a test fluid requirements

RATIONALE

Responses to comments have been posted within the UL 87A Proposal Review Work Area dated (2018-03-30).

As a result of the comments submitted, revisions to paragraphs 29.1.1, 33.2, 34.2 and 42.4 are being proposed.

PROPOSAL

29.1.1 The test outlined in 29.2 – 29.4 is to be performed on one or two samples of the device.

If the product is rated for use with gasoline or a gasoline/ethanol blends with a nominal ethanol concentration of up to 25 percent (E0 – E25), then the test shall be performed using the CE25a test fluid.

If the product is rated for use with gasoline or a gasoline/ethanol blends with a nominal ethanol concentration of up to 40 percent (E0 – E40), then the test shall be performed using both the CE25a and CE40a test fluids.

If the product is rated for use with a gasoline/ethanol blend with a nominal ethanol concentration ~~above 25~~ of up to 85 percent, then the test shall be performed using both the CE25a and CE85a test fluids.

See Supplement SA for the test fluids.

33.2 For products rated for gasoline or a gasoline/ethanol blends with a nominal ethanol concentration of up to 25 percent (E0 – E25), the test shall be performed on one set of samples using the CE25a test fluid. If the product is rated for use with gasoline or a gasoline/ethanol blends with a nominal ethanol concentration of up to 40 percent (E0 – E40), then the test shall be performed using both the CE25a and CE40a test fluids. If the product is rated for gasoline/ethanol blends with a nominal ethanol concentration

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~~above 25~~ of up to 85 percent, then the test shall be performed on two sets of samples using both the CE25a and CE85a test fluids. See Supplement SA. Each set of samples shall be immersed (completely submerged) in vessels containing the applicable test fluid for 168 hours at $23 \pm 2^{\circ}\text{C}$ ($73 \pm 4^{\circ}\text{F}$).

34.2 For products rated for gasoline or a gasoline/ethanol blend with a nominal ethanol concentration of up to 25 percent (E0 – E25), the test shall be performed on one set of samples using the CE25a test fluid. If the product is rated for use with gasoline or a gasoline/ethanol blends with a nominal ethanol concentration of up to 40 percent (E0 – E40), then the test shall be performed using both the CE25a and CE40a test fluids. If the product is rated for gasoline/ethanol blends with a nominal ethanol concentration ~~above 25~~ of up to 85 percent, then the test shall be performed on two sets of samples using both the CE25a and CE85a test fluids. See Supplement SA. Each set of samples shall be immersed (completely submerged) in vessels containing the applicable test fluids for 168 hours at $23 \pm 2^{\circ}\text{C}$ ($73 \pm 4^{\circ}\text{F}$).

42.4 For products rated for gasoline or a gasoline/ethanol blend with a nominal ethanol concentration of up to 25 percent (E0 – E25), the test shall be performed on one set of samples using the CE25a test fluid. If the product is rated for use with gasoline or a gasoline/ethanol blends with a nominal ethanol concentration of up to 40 percent (E0 – E40), then the test shall be performed using both the CE25a and CE40a test fluids. If the product is rated for gasoline/ethanol blends with a nominal ethanol concentration ~~above 25~~ of up to 85 percent, then the test shall be performed on two sets of samples using both the CE25a and CE85a test fluids. See Supplement SA. The specimens are to be exposed for 168 hours (7 days) to saturated vapors of the applicable test fluids as separate tests. During and after the exposure, the specimens are to be observed for discoloration, swelling, crazing, leaching, or dissolving.

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