



MEETING LOG

MEETING TITLE/SUBJECT: ASTM F15.72 Prefilled Containers Task Group Meeting

FY 23 OP PLAN ENTRY: Fire Safety of Portable Fuel Containers and Gasoline Cans

DATE OF MEETING: 8/10/2023

LOCATION OF MEETING: Virtual

CPSC STAFF FILING MEETING LOG: Scott Ayers, 8/15/2023

CPSC ATTENDEE(S): Scott Ayers (ESEF), Kristen Talcott (ESHF), and Ryan Cudemus-Brunoli (CREM)

NON-CPSC ATTENDEE(S): Contact ASTM F15.72 for more information on this meeting

Summary of Meeting:

This was an ASTM F3429 task group meeting to discuss proposed changes to ASTM F3429. The group previously agreed to ballot a retention test requirement including 15 lb push and pull forces and 25 lbf-in torque in each direction. This meeting was called to discuss that proposed change and other potential changes.

The group discussed container combustibility; some plastic containers may catch fire when subjected to the pilot flame. Qualifying a flame mitigation device on another container may not accurately characterize combustibility of the subject container. Staff volunteered to work with a VEXA staff member to develop a proposal for the group at the next meeting.

The group discussed allowing an increased gaseous fuel and air flowrate in section 8.4; this allowance was included in section 9.4. After discussion the group agreed that this was an oversight and CPSC staff supported adding the allowance to section 8.4.

The group discussed allowing propane as the test gas. Ethylene was chosen as the test gas because it presents a safety margin for all flammable liquids used when it is possible for consumers to increase flow rate by squeezing the container. Manufacturers proposed that containers that are not squeezable and are filled with class D flammable liquids as defined by NFPA 497 be allowed to be tested with propane as the test gas. CPSC staff is considering whether to support this proposal and will discuss more with the group at the next meeting. CPSC staff will research appropriate grip strength (squeeze force) data and report back to the group at the next meeting.

The group discussed what area ratio is required for a container to flame jet. The scope points out that containers with large mouths compared to the cross-sectional area of the container will not flame jet, but that ratio has not been determined. Manufacturers may conduct a research project to determine that ratio. Manufacturers would invite CPSC staff to participate in the review of the potential research project.

The group discussed the pull force on very small flame mitigation devices. CPSC staff pointed out that the



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entire flame mitigation device assembly should be tested for retention and not just small components within the assembly. A manufacturer is considering CPSC staff's position and will propose clarifying language for the proposed retention test.

Next Steps:

The next meeting is scheduled for Thursday August 31, 2023 at 2pm.