STANDARDS UPDATE NOTICE (SUN)
ISSUED: May 31, 2018

STANDARD INFORMATION

Standard Number: CSA C22.2 No. 195
Standard Name: Motor-Operated Food Processing Appliances (Household and Commercial)
Standard Edition and Issue Date: 2nd Edition Issued June 1, 2016
Date of Revision: June 1, 2016
Date of Previous Revision of Standard: January 1, 2014

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **April 10, 2019**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revised requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revised requirements.

Overview of Changes:

- Addition of requirements for blender blade endurance test
- Addition of requirements for rechargeable battery-operated food processing appliances
- Update of references from CSA C22.2 No. 0.6 to CSA C22.2 No. 0.17

Specific details of new/revised requirements are found in table below.

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action Required:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.

STANDARD INFORMATION

CLAUSE	VERDICT	COMMENT
		Additions to existing requirements are underlined and deletions are shown ~~lined out~~ below.
5	Info	**Construction**
5.9	Info	**Electrical insulation**
5.9.2		When subjected to the effects of arcing (such as a location within 13 mm of an open electrical contact of switches or commutators), insulation shall ~~have self-extinguishing characteristics~~ comply with the high current arc ignition test of Clause 7.17.
5.9.3		***New clause added;*** Insulation used to support bare live parts shall comply with the flame test requirements of Clause 7.20.3 or shall be rated minimum V-2 material, in compliance with Clause 4.2.2 of CAN/CSA-C22.2 No. 0.17.
5.19	Info	Printed circuit boards
5.19.1		Printed circuit boards shall be of heat-resistant and moisture absorption-resistant insulating material and, except as permitted by Clause 5.19.2, shall comply with the flame test requirements of a) Clause 5.2.5; or b) ~~Clause 10.4.3, Test F of Standard C22.2 No. 0.6, for materials classed as 0.6 V-1.~~ Clause 4.2.2 of CAN/CSA-C22.2 No. 0.17 for classifying materials as V-1.
5.19.2		Printed circuit boards supporting Class 2 circuits only, as defined in the CE Code, Part I or CSA C22.2 No. 66.2, shall comply with a) ~~Clause 9, Test E of Standard C22.2 No. 0.6, for materials classed as 0.6 HB;~~ Clause 4.2.3 of CAN/CSA-C22.2 No. 0.17 for classifying materials as HB; or b) ~~Clause 10.4.4, Test F of Standard C22.2 No. 0.6, for materials classed as 0.6 V-2.~~ Clause 4.2.2 of CAN/CSA-C22.2 No. 0.17 for classifying materials as V-2.
7	Info	**Tests**
7.2		**Maximum normal load**
7.2.3		**Food blenders**
7.2.3.1		**Household and commercial food blenders**
7.2.3.1.2		***New clause added;*** The removal of obstructions when the appliance stalls shall be conducted with the blender container removed from the motor assembly in order to avoid injury caused by the unexpected starting of the motor.

7.2.3.2		***New section added;*** **Blender blade endurance test**
7.2.3.2.1		The blender blade endurance test shall be performed on each unique blender blade and container construction combination. Each combination shall be tested with the motor assembly that results in the highest measured input during the rating test.
7.2.3.2.2		Three samples of each representative blender container and blade assembly shall be subjected to 500 cycles of "Ice Crushing" operation wherein the blender blade assembly shall not break, crack, become loose or show any signs of deterioration, as seen without magnification. Each cycle of "Ice Crushing" shall consist of 5 pulses of 0.4 +/- 0.1 s ON, at the highest speed setting, followed by 3 s OFF. For each cycle, the blender container shall be loaded with ice and tap water to the levels as described in Clause 7.2.3.2.3. At the end of each cycle, the crushed ice and water mixture shall be emptied. Note: If the blender has controls that gradually increase the speed to maximum power, the speed at maximum power needs to be used to determine the end of the pulse.
7.2.3.2.3		To determine the volume of ice and water to be used, the container shall be loaded with a ratio of 2:1 by volume (e.g., 2 cups of ice and 1 cup of water). A cup of ice by volume should weigh approximately 150 g. The ice should fill the container to at least 1/3 of the marked capacity of the container. The ice may include both broken pieces and whole pieces, but must contain some pieces with the major dimension greater than or equal to 25.4 mm and a minor dimension greater than or equal to 12 mm. The container assembly shall then be subjected to 1 cycle of 5 pulses. At the end of the cycle, the mixture must contain some pieces with the major dimension greater than 6.3 mm. If the ice is not impacted for all 5 pulses, cavitation occurs, or the mixture does not contain pieces with a major dimension greater than 6.3 mm at the end of the cycle, then the size of the ice, volume of the ice, and/or volume of the water shall be adjusted until the resulting mixture is acceptable.
7.2.3.2.4		The container may be marked with the level of ice and water to be added based on the measured volume of ice and water determined in Clause 7.2.3.2.3 to facilitate loading the container for each cycle. For the first 10 cycles of the test, and every 50 cycles of the test, the resulting ice crushed shall be checked to ensure that the mixture contains some pieces with the major dimension greater than 6.3 mm. If at any point during the test the ice is not impacted for all 5 pulses, or if the brand of ice or method of making ice changes, the volume of ice and water shall be re-adjusted, and the resulting ice mixture checked for 10 cycles.
7.2.3.2.5		The ice shall be maintained at a temperature of -10°C or less for at least 8 h prior to the test. The ice, when moved from storage, shall be used within 5 min. The water shall be initially 20°C +/- 10°C.
7.20	Info	**Standard flame tests**

7.20.1	Appliances that are unattended in normal use, or that have power-consuming components as described in Clause 5.2.4, shall comply with ~~Test A or Test J of CSA Standard C22.2 No. 0.6.~~ Clauses 4.2.1 and 4.2.6 of CAN/CSA-C22.2 No. 0.17 as applicable.
7.20.2	Appliances that are attended in normal use shall comply with ~~Test D of CSA Standard C22.2 No. 0.6~~ Clause 4.2.3 of CAN/CSA-C22.2 No. 0.17. The enclosures shall not continue to burn for more than 1 min after either application of the test flame.
7.20.3	Appliances that have momentary contact switches or are intended to be handheld during operation, and that contain components having enclosures as described in Clause 5.2.6, shall comply with ~~Test E of CSA Standard C22.2 No. 0.6~~ Clause 4.2.3 of CAN/CSA-C22.2 No. 0.17.
Annex B	***New annex added;*** **Requirements for rechargeable battery-operated food processing appliances.**
B.1	This Annex covers motor-operated food processing appliances (household and commercial) that are powered by rechargeable batteries either solely or as an alternative or in conjunction with other sources.
B.2	Rechargeable battery-operated food processing appliances that are covered under this Annex shall meet the requirements specified in CSA C22.2 No. 0.23 with the conditions and specifications as required by Annex D of CSA C22.2 No. 0.23 as indicated in Clauses B.3 to B.12.
B.3	In reference to Indent A of Annex D of CSA C22.2 No. 0.23, except as indicated elsewhere in CSA C22.2 No. 0.23, the requirements in Items a), b), and c) in this Standard do not apply or are amended as indicated below: a) Clauses 5.5 (Supply connections), 5.6 (Strain relief and flexing), 5.7 (Terminal parts), 5.9 (Electrical insulation), 5.11 (Switches and controls), 5.12 (Suppressors), 5.13 (Lampholders), 5.14 (Protective devices and fuseholders), 5.15 (Transformers), 5.16 (Spacings), 5.18 (Grounding and bonding), 5.19 (Printed circuit boards), 7.3 (Starting), 7.4 (Rating), 7.5 (Temperature (normal), 7.6 (Dielectric strength), 7.7 (Temperature (abnormal), 7.8 (Insulation resistance (repeated) for outdoor appliances), 7.9 (Performance of manually operated switches), 7.10 (Leakage current), 7.13 (Strain relief and flexing for power supply cords), 7.14 (Speed control-limited short circuit), 7.17 (High current arc ignition), 7.18 (Cord set retention), 7.19 (Moisture-absorption resistance of insulation), 7.20 (Standard flame tests), and Annex A (Requirements for cord-connected double-insulated appliances) do not apply in their entirety. b) Clauses 1.4, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.2.6, 5.4.5, 5.8.5, 5.10.1, 5.10.2, 6.1 (Items (c) to (f)), 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.11, 6.15, 7.1.1, 7.1.2, 7.1.3, 7.2.1.1, 7.2.1.2, 7.2.1.3, 7.2.1.4, 7.2.1.5, 7.2.2.1, 7.2.2.2, 7.2.3.1, 7.2.4.1, 7.2.4.2, 7.2.5.1, 7.2.5.2, 7.2.6.1, 7.2.6.2, 7.2.7, 7.2.8.1, 7.2.8.2, 7.2.9, 7.2.10, 7.2.11, 7.2.12, 7.2.13.1, 7.2.13.2, 7.2.14, 7.2.15.1, 7.2.15.2, and 7.12.1, Tables 3, 4, 5, 6, 7, and 8, and Figures 6 and 7 do not apply.

c) For Clause 7.2.3.2.1, the first paragraph shall be amended as follows:
“The following procedure shall be performed on each unique blender blade and container construction combination. Each combination shall be tested with the motor assembly fitted with a fully charged battery or batteries. If the test in Clause 7.2.3.2.2 results in the battery or batteries discharged prior to completing 500 cycles, the discharged battery or batteries shall be replaced with new fully charged battery or batteries until 500 cycles are completed.”

d) For Clause 6.7, if the construction of appliances is such that a cleaning or similar servicing by the user involves the exposure of any moving accessories that can be powered accidentally (such as the replacement of blades), the equipment shall be clearly and permanently marked with the following warning:
"Disconnect Battery Pack Before Cleaning or Servicing”, or the equivalent, and
« Débrancher le bloc de batteries avant le nettoyage ou le dépannage »
Note: This warning is not applicable for batteries that cannot be disconnected from the appliance in normal use.

B.4	With respect to Indent B of Annex D of CSA C22.2 No. 0.23, users are not considered to be wet during the use of these products.
B.5	With respect to Indent C of Annex D of CSA C22.2 No. 0.23, detachable or separable battery packs for products intended for outdoor use shall be considered to be exposed to environments that would require an ELT: –35 °C classification.
B.6	With respect to Indent D of Annex D of CSA C22.2 No. 0.23, during the heating test, appliances shall be operated with the attachment installed. Appliances using various attachments (e.g., a food mixer having a food-chopping attachment) shall be fitted with the attachment which has the largest mass.
B.7	With respect to Indent E of Annex D of CSA C22.2 No. 0.23, the temperature limits listed in Table 9.1 of CSA C22.2 No. 0.23 shall be considered suitable.
B.8	With respect to Indent F of Annex D of CSA C22.2 No. 0.23, during the abnormal tests, the appliance shall be operated at no-load in accordance to Clause 11.1.3 of Appendix D of CSA C22.2 No. 0.23.
B.9	With respect to Indent G of Annex D of CSA C22.2 No. 0.23, additional or alternative safety-critical functions (SCFs) are identified in Tables B.1 to B.3.

Table B.1

Coffee grinders

Type and purpose of SCF	Required performance level (PL)
Prevent unwanted turn-on where users are exposed to the risk of injury due to moving parts or accessories such as blades	c
Provide desired switch-off of the appliance if continued operation exposes the user to a substantial risk of injury due to moving parts or accessories such as blades	b
Prevent exceeding a thermal limit as defined in Clause 9 of CSA C22.2 No. 0.23	a
Activation of interlock before operation can take place	c

Table B.2

Household juice extractors

Type and purpose of SCF	Required performance level (PL)
Prevent unwanted turn-on where users are exposed to the risk of injury due to moving parts or accessories such as blades	c
Provide desired switch-off of the appliance if continued operation exposes the user to a substantial risk of injury due to moving parts or accessories such as blades	b
Prevent exceeding a thermal limit as defined in Clause 9 of CSA C22.2 No. 0.23	a
Interlock preventing operation when a cover or guard is removed	c

Table B.3

Handheld electric knife

Type and purpose of SCF	Required performance level (PL)
Prevent unwanted turn-on where users are exposed to the risk of injury due to moving parts or accessories such as blades	c
Provide desired switch-off of the appliance if continued operation exposes the user to a substantial risk of injury due to moving parts or accessories such as blades	b
Prevent exceeding a thermal limit as defined in Clause 9 of CSA C22.2 No. 0.23	a
Function providing audible, visible, or other obvious indication that the blade is securely locked in place.	b

B.10

With respect to Indent H of Annex D of CSA C22.2 No. 0.23, the impact surface may be conducted on hardwood for appliances for indoor use only or on concrete for appliances that can be used outdoor.

B.11

With respect to Indent I of Annex D of CSA C22.2 No. 0.23, battery-operated appliances with batteries that cannot be disconnected from the appliance in normal use, such as with integral batteries where unexpected operation of an accessory that could result in a risk of severe injury during servicing or cleaning, shall have a switch actuator that disconnects the appliance from all conductors of the batteries. The switch actuator shall require two separate and dissimilar actions before connecting power to the appliance. The following marking shall appear adjacent to the switch: “Switch to OFF position before any servicing or cleaning”.

B.12

With respect to Indent J of Annex D of CSA C22.2 No. 0.23, battery-operated appliances that can also be operated or charged by mains or, a non-isolated source as described in CSA C22.2 No. 0.23, shall also meet the requirements of C22.2 No. 195 that apply to the risk of electric shock. For these types of 61appliances, the exempted requirements specified in Clause B.3, Items (a) and (b) of CSA C22.2 No. 195 might be applicable.

	CUSTOMERS PLEASE NOTE: This Table and column “Verdict” can be used in determining how your current or future production is or will be in compliance with new/revised requirements.