

STANDARD INFORMATION

Standard: UL 2054

Standard ID: Household and Commercial Batteries [UL 2054:2021 Ed.3]

Previous Standard ID: Household and Commercial Batteries [UL 2054:2004 Ed.2+R:14Sep2011]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **November 17, 2024**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

Overview of Changes:

- Addition of general construction requirements for wiring and terminals
- Revised requirements for adhesive labels

Specific details of new/revise requirements are found in table below

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 – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records.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
6	Info	Electrolyte
		<i>New section added;</i>
6.3		Wiring and terminals
6.3.1		Wiring shall be insulated and acceptable for the purpose, when considered with respect to temperature, current, and voltage to which the wiring is likely to be subjected within the battery pack.
6.3.2		The wiring splice or connection shall be mechanically secured and shall provide electrical contact without strain on connections and terminals. Wiring shall be secured and routed away from sharp edges or other parts that may compromise wiring insulation.
		<i>New section added;</i>
29		Label Permanence Test
29.1		The purpose of this test is to evaluate the permanence of an adhesive label that has not been subjected to a previous evaluation program. See 30.1.
		An adhesive label secured to a surface representative of the end use application and is subjected to the following conditioning:
29.2		a) The label sample is rubbed by hand for 15 s with a piece of cloth soaked with water; and b) The sample is again rubbed for 15 s with a piece of cloth soaked with petroleum spirit.
		The petroleum spirit to be used for the test is an aliphatic solvent hexane having:
29.3		a) A maximum aromatics content of 0.1 % by volume; b) A kauributenol value of 29; c) An initial boiling point of approximately 65 °C (149 °F); d) A dry point of approximately 69 °C (156.2 °F); and e) A mass per unit volume of approximately 0.7 kg/L.
		Exception: As an alternative, it is permitted to use a reagent grade hexane with a minimum of 85 % as nhexane.
29.4		After the conditioning outlined in 29.2, the sample is to be examined for signs of damage including curing and to determine if the marking is still legible. The sample is also examined to determine if it can be removed by easily by hand from the surface the adhered surface.



CLAUSE	VERDICT	COMMENT
29.5		After the conditioning outlined in 29.2, the sample is to be examined for signs of damage including curing and to determine if the marking is still legible. The sample is also examined to determine if it can be removed by easily by hand from the surface the adhered surface.
	Info	MARKING AND INSTRUCTIONS
30	Info	General
		<i>New clause added;</i>
30.1		<p>The markings required for compliance to this standard shall be legible and permanent such as etched, adhesive labels, etc. An adhesive-backed label shall comply with the requirements in UL 969, for the intended exposure conditions and surface adhered to.</p> <p>Exception: Adhesive labels may be alternately evaluated to the Label Permanence Test in Section 29.</p>