

Statement of decision rule for TUV SUD Hong Kong Limited

When a statement of conformity is provided in the report, TUV SUD Hong Kong Limited adopts a decision rule as described below:

- a) Non-numerical results (e.g. grading, rating, observation, etc.):
A statement of conformity will be reported directly according to test result and standard / specification requirement.
- b) Numerical results:
i) When testing to the following standards / specifications, determination of conformity will follow the decision rule which is inherent in the respective standards / specifications:

Test standard	Test item
GB 6675.1:2014 Testing with GB 6675.4-2014	- Migration of the elements: antimony, arsenic, barium, cadmium, chromium, lead, mercury, selenium in toys material in toy materials
Japan Toy Safety Standard ST 2012, English version (2012.9.27), Part 3 Japan Toy Safety Standard ST 2016, English version (2016.04.01), Part 3	- Coloring matters (cl. 1.1) - Arsenic (cl. 1.2) - Heavy metal (cl. 1.2) - Extractable lead (cl. 1.11) - Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium) (cl. 1.5 and 1.8)
Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2010, JETRO April 2011, Part V "TOYS" Specification, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (Following the tentative English translation published by JETRO January 2009)	- Coloring matters (Part III Section B) - Cadmium, lead and arsenic (Part III Section A Paragraph 4) - Heavy metals (Part III Section A Paragraph 6 and 9) - Arsenic (Part III Section A Paragraph 6, 9) - Extractable lead (Part III Section A Paragraph 10)
Specification, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents – Part II (English version published by JETRO, January 2009)	- Elution Test of Formaldehyde (Section B-8 and D-2)
ASTM F963-17 ASTM F963-23	- Migration or screening of eight elements: - antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium
AS/NZS ISO 8124.3: 2012 AS/NZS ISO 8124.3: 2021 ISO 8124-3: 2020 ISO 8124-3: 2020 + A1:2023	- Migration of eight elements: antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium
Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 27 as amended by Commission Regulation (EC) No. 552/2009 EN 1811: 2011 EN 1811: 2011 + A1:2015 EN 1811: 2023 DIN EN 1811:2011/AC:2012 BS EN 12472: 2005 + A1: 2009	- Release of nickel



- ii) When testing to the electrical test standards / specifications (except for electric toys), below decision rule will be applied (reference to IEC Guide 115 accuracy method):

Decision rule is not prescribed, "Simple Acceptance Rule" according to ILAC-G8:09/2019, clause 4.2.1 will be applied without consideration of influence of measurement uncertainty.

- iii) When testing to the standards / specifications other than that above, below decision rule will be applied (reference to ILAC G8: 2019 Cl. 4.2.3):

Decisions are based on the Acceptance Limits (AL) = Tolerance Limit (TL) +/- Guard Band (w), where Guard Band $w = U$. TL is tolerance limit of the requested standard or specification and U is the calculated expanded uncertainty with coverage factor, $k=2$.

Statements of conformity are reported as -

- *Pass/P - the measured result is below the acceptance limit, $AL = TL - w$. The specific false accept risk is up to 2.5%*
- *Inconclusive - the measured result is inside the guard band and below the tolerance limit, in the interval $[TL - w, TL]$, or above the tolerance limit but below the tolerance limit added to the guard band, in the interval $[TL, TL + w]$.*
- *Fail/F - the measured result is above the tolerance limit added to the guard band, $TL + w$. The specific false reject risk is up to 2.5%.*

Explanation of decision rule: <https://www.tuvsud.cn/zh-cn/-/media/regions/zh/cn/pdf-files/terms-and-conditions/tuvsud-terms-and-conditions-explanation-of-decision-rule.pdf>

This document is subject to review at least once per year.