

TÜV Rheinland LGA Products – Information

May 2020

ISO-Standard 8124-3:2020 Migration of certain elements Third version published in March 2020

On **16 March 2020**, the International Organization for Standardization (ISO) published **ISO 8124-3:2020**. This is the third version of the standard ISO 8124-3 named "Safety of Toys - Part 3 - Migration of certain elements. It also **incorporates the Amendments** ISO 8124-3:2010/Amd.1:2014 and ISO 8124-3:2010/Amd.2:2018.

Parallel to the release of the current version, the previous edition of 2010 and its amendments were withdrawn.

The major changes are amendments in the **definition of paper and paperboard**, new **dewaxing methods** and addition of an **analysis method for the presence of elements**:

Topic	ISO 8124-3:2020	ISO 8124-3:2010	Effect
Definition of the materials "paper" and "paperboard"	sheet formed by irregularly intervened cellulose fibres: ○ paper: mass per unit area ≤ 400 g/m² ○ paperboard: mass per unit area > 400 g/m², excluding ○ materials resistant to wetting (different properties) ○ pressed wooden fibreboards	 paper and paperboard: materials having a mass per unit area ≤ 400 g/m² materials > 400 g/m² are treated as "other material" 	heavy materials will now be treated as "paperboard" instead of "other material" > test with all surface coatings > maceration prior to migration
Dewaxing method	Two alternative dewaxing methods (A and B) using nheptane are fully described. Other methods may also be used if they are capable of completely removing non-polar ingredients.	Brief description: "enclose the test portion in hardened filter paper and remove these ingredients using n-heptane"	hardly any; also other methods with comparable efficiency are allowed
analysis method for quantitative determination of elements	 New Chapter 10.1: reference to ICP-OES, ICP-MS, AAS or other suitable techniques. New Chapter 10.3: Calculation of Results New Annex C (informative) - ICP-OES-method 	[no reference to certain test methods]	practically none; proposed methods are not binding

Further, in informative Annex D some comments concerning statistical uncertainty, pH-measurement and testing on raw material were added.

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