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23.03.2017

Report No. 0003213998/30 AZ 262181b  
(Revision of test report AZ262181a, dated 23.03.2017)

Test item: Two samples of coated wooden board

Identification: 1) YO-30C831/---SBN  
2) YO-30M864

Condition at delivery: No claim

Date of delivery: 08.03.2017


Place of testing: Nuremberg

Test period: 09.03.2017 to 21.03.2017

Test scope: Parameters selected by customer

Cologne, 23.03.2017

  
Dipl. Geol. Ralf Meier  
(Expert)

  
Staatl. gepr. LM-Chem. Meike Dötsch  
(Expert)

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## 1. Photo documentation

Picture 1: YO-30C831/--SBN



Picture 2: YO-30M864



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## 2. List of materials

Matl.No.	Article	Article name
262181-1	1	YO-30C831/--SBN
262181-2	2	YO-30M864

Mat.No.	Article	Component	Material	Colour
001	1	basic material + coating	other material	cross section
002	2	basic material + coating	other material	cross section

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### 3. Results

#### EN 71-3, Migration of certain elements, category 3

Sample No.	262181-001	262181-002	
Sample composition	Mat. 001	Mat. 002	
Unit	mg/kg	mg/kg	
<b>Soluble heavy metals</b>			
Aluminium	<100	<100	
Antimony	<5	<5	
Arsenic	<1	<1	
Barium	<100	<100	
Boron	<10	<10	
Cadmium	<0,1	<0,1	
Chromium, total	<0,2	<0,2	
Chromium (III)	<0,2	<0,2	
Chromium(VI)	<0,2	<0,2	
Cobalt	<1	<1	
Copper	<10	<10	
Lead	<1	<1	
Manganese	<100	<100	
Mercury	<1	<1	
Nickel	<10	<10	
Selenium	<5	<5	
Strontium	<100	<100	
Tin*	<3	<3	
Zinc	<100	<100	

Legal limit values according to Directive 2009/48/EC:

Category 3:

Scraped-off toy material

aluminium 70000 mg/kg, antimony 560 mg/kg, arsenic 47 mg/kg, barium 18750 mg/kg, boron 15000 mg/kg, cadmium 17 mg/kg, chromium(III) 460 mg/kg, chromium(VI) 0,2 mg/kg, cobalt 130 mg/kg, copper 7700 mg/kg, lead 160 mg/kg, manganese 15000 mg/kg, mercury 94 mg/kg, nickel 930 mg/kg, selenium 460 mg/kg, strontium 56000 mg/kg, tin 180000 mg/kg, zinc 46000 mg/kg

\*Tin: If the migration of tin is less than the reporting limit the compliance with the limit value of 12 mg/kg can be confirmed. The determination of tin-organic compounds is not required in regards to metals and all-mineral materials like glass, ceramics etc.

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## 4. Summary of methods

<b>EN 71-3, Migration of certain elements, category 3</b>	<b>Standard: EN 71-3 + A1</b>	<b>Issue date: 01.10.14</b>
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Method description:  
Safety of toys - Part 3: Migration of certain elements and chromium(VI) from toy materials of category III, analysis by ICP-MS according to DIN EN ISO 17294-2 respectively chromium(VI) after pre-column accumulation and post-column derivatisation by ion chromatography

----End of report----