

MIGRATION OF CERTAIN ELEMENTS according to UNE-EN 71-3 SAFETY OF TOYS

1.- SAMPLE DESCRIPTION.

- Paper sample: ESTUCADO DOBLE 2C BRILLANTE RH

2.- MANUFACTURER

- TORRASPAPEL, S.A.

3.- TEST METHODOLOGY.

Sample preparation and metals extraction have been carried out according to UNE-EN 71-3: 1994 standard method.

Determinations of antimony (Sb), arsenic (As), barium (Ba), cadmium (Cd), chromium (Cr), lead (Pb) and selenium (Se) have been made by ICP-induced plasma spectrometry while mercury (Hg) has been analysed by atomic absorption technique.

4.- RESULTS.

Testing date: 30/09/2005.

Metals	Content (ppm)	Maximum allowed value (ppm)	Límite de detección
Antimony	< 10	60	10
Arsenic	< 12,5	25	12,5
Barium	45,45	1000	8,8
Cadmium	< 1,8	75	1,8
Chromium	< 1,8	60	1,8
Lead	< 8,8	90	8,8
Selenium	< 25	500	25
Mercury	< 0,003	60	0,003

These results are expressed in mg element/Kg of material. Maximum values are those allowed in UNE EN 71-3 standard for these specific metals all them referred to soluble part

Results of migration indicate that mostly all of metals present a concentration under detection limit. In no case, maximum values allowed are surpassed.

5. - CONCLUSIONS.

Paper sample analysed, referred as ESTUCADO DOBLE 2C BRILLANTE RH **is agree** with UNE-EN 71-3 on safety of toys. Part 3: Migration of certain elements.

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