

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

1.- SAMPLE DESCRIPTION.

- Paper sample: OFFSET BLANCURA 103

2.- 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.

3.- RESULTS.

Testing date: 09/02/2005.

Metals	Content (ppm)	Maximum allowed value (ppm)
Antimony	< 5.0	60
Arsenic	< 5.0	25
Barium	116.0 ± 46.0	1000
Cadmium	< 0.9	75
Chromium	< 0.9	60
Lead	< 4.4	90
Selenium	< 5	500
Mercury	< 0.025	60

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.

4.- CONCLUSIONS.

Paper sample analysed, referred as OFFSET BLANCURA 103 **is agree** with UNE-EN 71-3 on safety of toys. Part 3: Migration of certain elements.

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