

DETERMINATION OF TITANIUM ACETYLACETONATE (TAA)

1. - SAMPLE DESCRIPTION:

- Paper sample: EUROKOTE AUTOADHESIVO WS

2. - MANUFACTURER:

- SARRIOPAPEL SA

3. - DATE AND PLACE OF ANALYSIS:

- July, 5th 2006

Serveis Científico-Tècnics (UB) and grup de recerca LEPAMAP (UdG)

4. - CONDITIONS OF ANALYSIS

Sample are submitted to total digestion to determine titanium concentration by means of ICP-MS

5. - RESULTS:

Results obtained and the corresponding minimum detection levels are presented in the table.

	Concentration (mg/kg)	Detection limit (mg/kg)	Concentration (g/m ²)
Titanium (Ti)	1521,9	12,2	0,122

Titanium detected is a total concentration that includes the proportion of inorganic TiO₂ present in the sample.

If the percentages of TiO₂ present in the formulation of the paper as contaminants of kaolin used in the coating layer are considered, values of titanium concentration are obtained, as it is showed in next table:

	% S/total basis weight	TiO ₂ (%)*	Ti (g/m ²)
Kaolin 1	5,886 g/m ²	2,0	0,071
Kaolin 2	8,799 g/m ²	1,0	0,052
TOTAL			0,123

* Mean values obtained in specialized bibliography and suppliers

Using the values calculated, the amount of inorganic titanium is higher than those values detected in the analyzed sample.

So, the presence of Titanium in the paper sample proceeds from the contamination of TiO₂ of the kaolin pigments used in the coating layer, in consequence, no organic titanium (TAA) is detected in the sample.

Date of emission: November, 29th 2006

Service Responsible

Laboratory responsible



M^a Àngels Pèlach



Laura Barberà

