Independent testing of material surfaces

Laboratory report

Analysis of leaching substances in treated wood samples conform guide line EU 10/2011

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Report nr.	RM180920VES-EXT
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1 Introduction

1.1 Order

Ordered by De Vesting BV, M2LAB BV has had 4 wood samples tested for the presence of leaching hazardous substances after immersion, conform EU guideline EU 10/2011.

1.2 Scope

The goal of the analysis is to demonstrate the presence or absence of leaching substances, after immersion, in accordance with guideline EU10 / 2011, in 4 treated wood samples.

1.3 Information samples

Table1: Received samples

Sample nr.	sample	Received
13-08-18/0530	4 treated wood samples (pack of 2) colour: brown	13-8-2018
13-08-18/0531	4 treated wood samples (pack of 2) colour: pink	
13-08-18/0532	4 treated wood samples (pack of 2) colour: brown	
13-08-18/0533	4 treated wood samples (pack of 2) colour: pink	

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2 Performed analysis

The analysis of presence of leaching substances has been performed conform guideline EU 10/2011, using Gas chromatography and Mass spectroscopy. A Shimatzu QP5050 A GS-MC with amplifier type AOC5000 has been used.
For analysis, from each package, 1 treated sample has been used for immersion. The wood samples have been immersed in DI-water for 2 hours, at a temperature of 40°C ±1°C.

After immersion the immersion fluid has been analysed for the presence of leaching substances. By means of extraction (transferring the leaching substances to a GC-MS compatible solvent) the fluid has been analysed in the GC-MS device. Parallel to this analysis, a head Space analysis (heating the solution and subsequently inject the vapour) has been performed. The analysis has been executed two twice.

A few spectra have been attached to this report.

The analysis have been performed between the 4th and 18th of September.

3 Results

3.1 Leaching substances

No leaching substances have been found. The GC-MS spectra and Head Space-injection spectra are all identical.

4 Conclusion

Based on the test results, the 4 delivered treated wood samples (sample number 13-08-18/0530-0533), do not contain any leaching hazardous substances.

Ben Hoppener

End of this report

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5 Liability

M2LAB BV is an independent test laboratory, specialised in inspection of materials and member of ION (Dutch Association of surface treatment of materials), NVVT (Dutch Association of Paint Technicians) and NRK (Dutch Plastics- and Rubber Industries).

M2LAB BV hereby declares to have no financial or legal interests in the outcome of the executed inspection.

The operational work has been performed with the greatest possible degree of care which also sought to maximize representativeness of the study. Observations are in many cases snapshots, making certain derogations or details might not have been noticed with the result that the conclusions of the inspection are not complete.

What M2LAB BV advises in this report does not give rise to any liability for any damages arising from any inaccuracies in this document or the assumptions that are made on the basis of test results by the client.

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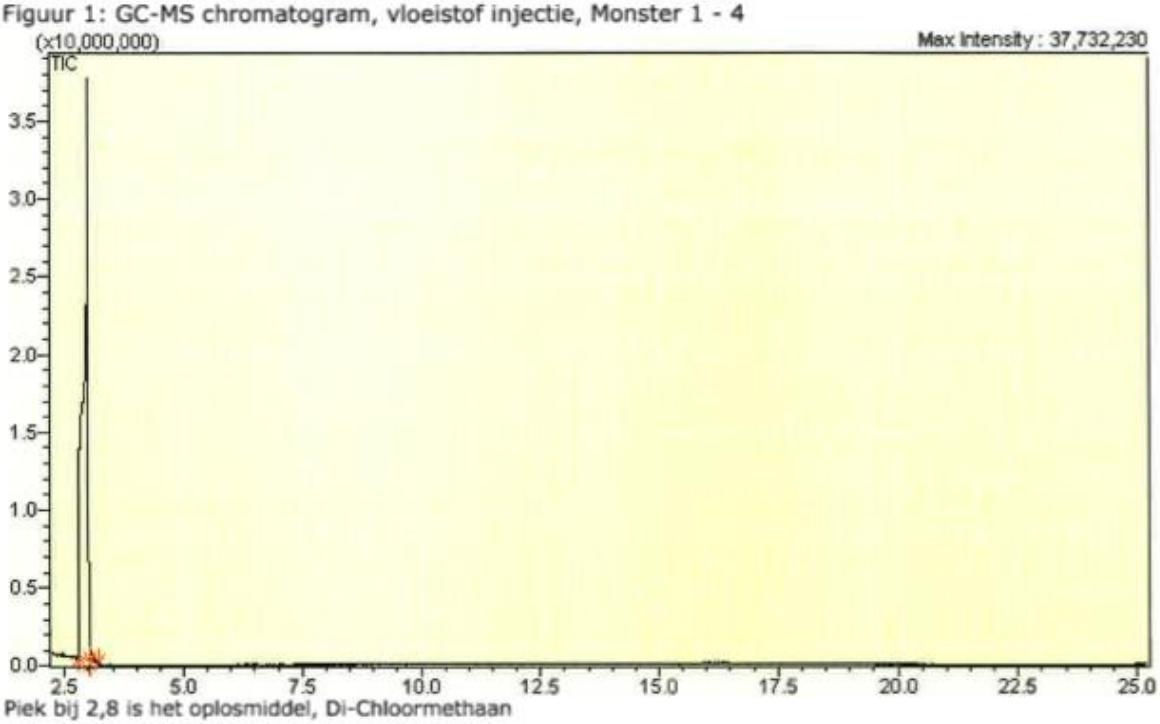
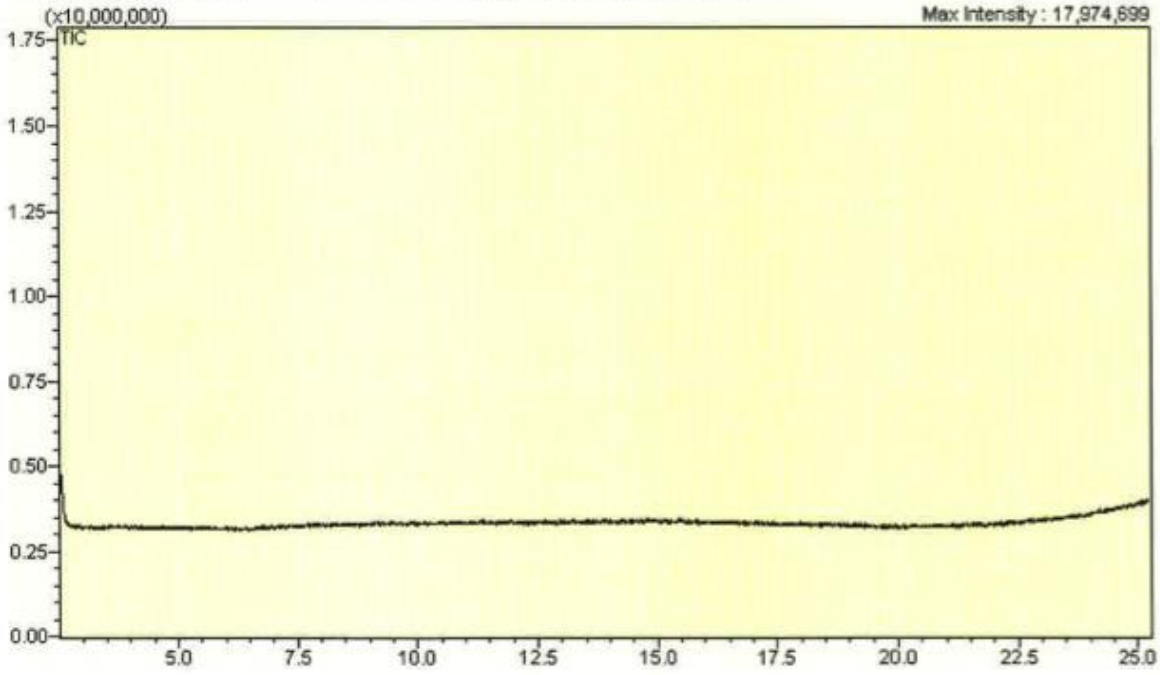
Attachment: GC-MS and Head Space injection spectra

Figuur 1: GC-MS chromatogram, vloeistof injectie, Monster 1 - 4



Piek bij 2,8 is het oplosmiddel, Di-Chloormethaan

Figuur 2: GC-MS chromatogram, Head Space injectie, Monster 1 - 4



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