



## Formaldehyde emission glass desiccator test, flooring

<b>METHOD</b>	JAS MAFF, Notification No. 240, for flooring, February 27, 2003
<b>Desiccator size</b>	9 - 11 l
<b>Temperature</b>	20 ± 1°C
<b>Sample size</b>	150 x 50 x 15.6 mm
<b>No. of pieces</b>	10
<b>Conditioning</b>	Conditioned 1 day in air-tight plastic at 20 ± 1°C after cutting
<b>SAMPLE</b>	
<b>Type and identification</b>	"Pure" wood; material for parquet construction without glue, received from Timberwise Oy. The aim of the analysis was to measure the formaldehyde emission from the parquet construction not containing any glue (background from pure wood). The face and veneer layer was connected to the middle layer with staples by a tacker before analysis.
<b>Received from</b>	Timberwise Oy
<b>Arrival date</b>	October 28, 2009 to Nacka
<b>Date of conditioning</b>	November 4 until November 5, 2009
<b>Date of analysis</b>	November 5 until November 6, 2009
<b>TEST RESULT</b>	
<b>Emission value</b>	0.12 (0.12, 0.12) mg formaldehyde/l

### NOTES

- The average background value in an empty desiccator is 0.003 mg/l. The test result has been corrected for this.
- The measurement uncertainty is 8 % (including a coverage factor of 2) for a sample with an emission value of 0.5 mg/l. The evaluation of the uncertainty is based on the principles given in *The Guide to the Expression of Uncertainty in Measurement*, 1993 (GUM) and has been made according to SP Rapport 2000:17 (see report 02 AA 031).
- The determination limit of the method is 0.03 mg/l.
- The formaldehyde emission can be compared with the following emission classes for flooring in Japan:  
F☆☆☆☆: ≤ 0.3 mg/l (average), ≤ 0.4 mg/l (maximum)  
F☆☆☆: ≤ 0.5 mg/l (average), ≤ 0.7 mg/l (maximum)  
F☆☆: ≤ 1.5 mg/l (average), ≤ 2.1 mg/l (maximum)  
F☆: ≤ 5.0 mg/l (average), ≤ 7.0 mg/l (maximum)

This report may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Report: 09 F5 006  
Project nr: 1504-09  
Customer: Henrik Essén  
Company: Casco Adhesives, Finland  
Distribution: Eugeniusz Abram  
Primary data: Formaldehyd 297  
Samples: Unused samples are stored for one month after the date of report if nothing else is agreed.


Date: 2009-11-09  
Pages: 1

Analyscentrum  
Casco Adhesives AB  
Box 11538  
SE-100 61, Stockholm,  
Sweden

Street address:  
Sickla Industriväg 6  
SE-131 34, Nacka

Author:  
Tel: +46 8 743 45 17  
Fax: +46(0)8 642 83 99  
ewa.vestin@akzonobel.com

  
Ewa Vestin  
Responsible

  
Anders Weibull  
Approved by

<http://www.analyscentrum.com>  
Organisationsnr: 556004-5311