

🗱 eurofins



Bioni CS GmbH Lessingstraße 21 46149 Oberhausen Germany

Eurofins Product Testing A/S Smedeskovvej 38 8464 Galten **Denmark**

voc@eurofins.com www.eurofins.com/voc-testing

28 February 2013

VOC Emissions Test report

1. Sample Information

Sample identification	Bioni Nature
Product type	Wall paint
Batch no.	12 02/1
Production date	12.02.2007
Date when sample was received	26.03.2007
Testing (start - end)	13.04 – 11.05.2007

2. Resulting VOC Emissions Class Label

This recommendation is based on French regulation of March 23, 2011 (décret DEVL1101903D) and of April 19, 2011 (arrêté DEVL1104875A). For details please see www.eurofins.com/france-voc



The product was assigned a VOC emission class without taking into account the measurement uncertainty associated with the result. As specified in French Decree no. 2011-321 of March 23, 2011, correct assignment of the VOC emission class is the sole responsibility of the party responsible for distribution of the product in the French market.

eurofins





3. Test Method

Method		Principle	Parameter		Quantification limit	Uncertainty				
ISO 16000 parts -3, -6, -9, -11		GC/MS	VOC		2 μg/m³	22% (RSD)			
Internal method numbers: 9810, 9811, 9812, 2808, 8400		HPLC/UV	Volatile alde- hydes		3 μg/m³	Um = 2 x RSD= 45 %				
Test chamber parameter										
Chamber volume, I	119	Temperature, °C		23±1	Relative humidity, %		50±5			
Air change rate, 1/h	0.5	Loading ratio, m²/m³		1.4						
Test condition: Sample stayed in test chamber during the whole 28 days testing period.										
Sample preparation										
Application amount, g/m²	403	Number of layers		1	Drying time, h		-			





4. Results

	Concentration after 28 days µg/m³	С	В	А	A+
TVOC	270	>2000	<2000	<1500	<1000
Formaldehyde	<3	>120	<120	<60	<10
Acetaldehyde	18	>400	<400	<300	<200
Toluene	<2	>600	<600	<450	<300
Tetrachloroethylene	<2	>500	<500	<350	<250
Ethylbenzene	<2	>1500	<1500	<1000	<750
Xylene	<2	>400	<400	<300	<200
Styrene	<2	>500	<500	<350	<250
2-Butoxyethanol	<2	>2000	<2000	<1500	<1000
Trimethylbenzene	<2	>2000	<2000	<1500	<1000
1,4-Dichlorobenzene	<2	>120	<120	<90	<60

< Means less than

Thomas Neuhaus

Head of product emission test centre

> Means higher than