

SGS INSTITUT FRESENIUS GmbH · Königsbrücker Landstraße 161 · D-01109 Dresden

BuzziSpace
Astrid de Chaffoy
Ankerrui 20/5

B-2000- Antwerp

Test report 4931996_1
Order No. 4931996
Customer order -
Order date 04.04.2019
Customer No 10177950

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Environment, Health and Safety

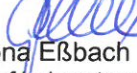



Dresden, June 20th, 2019

Emission test according to ISO 16000-9 (2008-04) according Label Blue Angel - RAL-UZ 38

Purchaser: BuzziSpace
Name of producer: BuzziSpace
Sample no.: 190388015
Sample description: Wooden table sample BuzziPicNic,
Article number S-000000332
Delivery date of sample: 11.04.2019
Test period: 18.04.2019 – 20.06.2019
Responsible person: Ramona Eßbach

SGS Institut Fresenius GmbH



i. V. 
Ramona Eßbach
Head of Laboratory

i. A. 
Heike Richter
Deputy Laboratory Manager

1. Order content

The emission of VOC (volatile organic compound) and aldehydes according to ISO 16000-9 (2008-04) and according ISO 16000-11 (2006-06) is to be determined on a wooden table sample - component testing on plate-like material.

2. Product description

Identification	Type/Dimension
Wooden table sample Model: Pic Nic white wash <i>Component testing on plate-like material</i>	Serial number: NA Batch number: NA Article number: S-000000332
Figure 1 – delivery condition	Figure 2 – test samples, size 50 x 50 x 3,5 cm each
	

3. Sampling

The test pieces (4 pieces) were taken by the customer from inventory stocks. On delivery, the test pieces were packed in bubble foil and cardboard.

Date of sampling: 04.04.2019
Place of sampling: Bergeijk, The Netherlands
Kind of product storage before taking the sample: loose

4. Test conditions

The emission of VOCs was carried out under the following defined conditions:

Temperature	(23 ± 1)	°C
rel.air humidity	(50 ± 5)	%
Exposition period	28	days
Air change rate	0,5	[/h]
Area of product	0,5	[m ²]

Test chamber size	1,0	[m ³]
Loading factor	0,5	[m ² /m ³]
Area specific air flow rate	1,0	[m ³ /m ² *h]

Sampling for the determination of VOCs was carried out at Tenax TA. The analysis was carried out according to ISO 16000-6 (2012-11) with GCMS/FID.

The determination limits are 1 µg/m³ per component.

Quantification is substance-specific. Unidentified compounds, non-calibrated compounds and substances without NIK are calculated as toluene equivalents.

The emission of Aldehydes was carried out according ISO 16000-3 (2013-01) with sampling on DNPH-coated silicagel tubes and analysis by HPLC and UV-/diode array detection.

The determination limit is 2 µg/m³ per component.

5. Experimental procedure

A blank sample of the emission chamber was analyzed before starting the emission test. All parameters to be determined were < LOD (limit of determination).

One test piece was placed in the test chamber with a total area of 0,5 m² on April 18th, 2019 (side edges taped with aluminium tape).

After an exposure period of 3 days, 7 days and 28 days, the samples were taken for VOC and aldehydes.

6. Results

6.1 Measurement results

The following individual compounds have been detected:

	CAS	Parameters	Results 3 days	Results 7 days	Results 28 days
			µg/m ³	µg/m ³	µg/m ³
	50-00-0	Formaldehyde	< 2	< 2	< 2
VOC	108-10-1	4-Methyl-2-pentanone	11	3	4
VOC	110-19-0	Isobutylacetat	1	1	1
VOC	123-86-4	n-Butylacetat	350	280	120
VOC	100-41-4	Ethylbenzene	17	13	8
VOC	106-42-3	m,p-Xylene	68	55	28
VOC	108-65-6	1,2-propylene glycol methyletheracetat	4	2	2
VOC	95-47-6	o-Xylene	18	13	9
VOC	95-63-6	1,2,4-Trimethylbenzene	1	1	1
		Sum TVOC (C6-C16)	470	368	173

6.2 Requirements RAL-UZ 38

Compound or substance	Limit value 3 rd day	Limit value 28 th day
Sum of organic compounds in the retention range C6-C16 (TVOC)	< 3,0 mg/m ³	< 0,4 mg/m ³
Sum of organic compounds in the retention range >C16-C22 (TSVOC)		< 0,1 mg/m ³
Carcinogenic substances	< 10 µg/m ³ (sum)	< 1 µg/m ³ (per single value)
Sum of all VOCs without NIK		< 0,1 mg/m ³
R-value		<1
Formaldehyde		< 0,05 ppm

6.3 Measurement results - Requirements RAL-UZ 38

Compound or substance	Results 28 days	Limit value 28 th day
Sum of organic compounds in the retention range C6-C16 (TVOC)	0,17 mg/m ³	< 0,4 mg/m ³
Sum of organic compounds in the retention range >C16-C22 (TSVOC)	< 0,1 mg/m ³	< 0,1 mg/m ³
Carcinogenic substances 1)	< 1 µg/m ³	< 1 µg/m ³ (per single value)
Sum of all VOCs without LCI 2)	< 0,1 mg/m ³	< 0,1 mg/m ³
R-value 3)	0,11	<1
Formaldehyde	< 0,002 ppm	< 0,05 ppm

1) according to EU legislation degree(EG) Nr. 1272/2008 app. VI Tab. 3.1

2) lowest concentration of interest

3) Sum of all quotients (Ci/LC*i*), Ci= substance concentration in the chamber air, LC*i*=LCI of the substance

VOC – organic compound in the retention range C6-C16

TVOC - Sum of organic compounds in the retention range C6-C16

- End of report -

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