

WATER AND SOIL TESTING LABORATORY

Provincial Sanitary and Epidemiological Station 61–705 Poznan Noskowskiego 21
tel. +48 61 8544-826 , 8544-82 fax. +48 61 8544-829 e-mail : lbwig@wssepoznan.pl

TEST REPORT No. “D”/647/1856/2014**Tests of the influence of materials on water intended for human consumption.**

Name and address of the customer : FLEXITUB, S.L. C/JUAN RAMON JIMENEZ 17-19 L'HOSPITALET DE LL. BARCELONA, SPAIN
- order of 30th July 2014

Sample registration number: “D”/647/1856/2014

Delivery date: 07.08.2014

Connectors/Hoses

Type of the material :

No description of the composition of the test material has been provided.

Manufacturer of the product :

FLEXITUB, S.L. - Barcelona

Method of sample preparation:

samples for chemical and organoleptic tests has been prepared in the form of hoses with a length of 1 m, internal diameter 13 mm and outer diameter of 20 mm

Test sample delivered by:

Customer

Application of the test materials:

in contact with water intended for human consumption

Reference method for testing the influence of materials on water intended for human consumption: physico-chemical parameters:

PN – EN 12873-1:2005

Reference method for testing the influence of materials on water intended for human consumption: organoleptic parameters:

PN – EN 1420-1:2003

**Sample surface area to the test water volume ratio (S/V):
physico-chemical parameters:**

S/V = 16,8 dm⁻¹

**Sample surface area to the test water volume ratio (S/V):
organoleptic parameters:**

S/V = 16,8 dm⁻¹

Water for test :

water used for migration tests prepared by reverse osmosis and deionized, chlorine free water

Chlorinated water test:

test water with a free chlorine content: 1±0,2 mg / l as Cl₂

Test temperature:

*23±2°C
60±2°C*

Migration time:

*3 x 72 h
3 x 24 h /for warm water test/*

Number of collocated samples:

2 samples

**Pre-treatment of the samples
and the migration tests:**

The tests have been performed by the Laboratory personnel.

Study start date: 18.08.2014

Study end date: 01.09.2014

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The results of the chemical influence of the material on water at $23 \pm 2^\circ\text{C}$ (Table 1 - 2)

Table 1

Parameter	Results			Unit	Reference method	Results			Unit
	Extract I – first 72h period					Migration A	Migration B	The mean value	
	Blank sample	sample A	sample B						
TOC	< 0,1	0,57	0,65	mg / l	PN-EN 12873-1 : 2005 + PN-EN 1484: 1999 Q	0,011	0,013	0,012	mgdm ⁻² d ⁻¹
Lead	< 1,0	7,4	6,4	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17294-2: 2006 Q	1,5·10 ⁻⁴	1,3·10 ⁻⁴	1,4·10 ⁻⁴	mgdm ⁻² d ⁻¹
Cadmium	< 0,1	< 0,1	< 0,1	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17294-2: 2006 Q	< 2,0·10 ⁻⁶	< 2,0·10 ⁻⁶	< 2,0·10 ⁻⁶	mgdm ⁻² d ⁻¹
Σ Phenols ¹	< 0,0012	< 0,0012	< 0,0012	mg / l	PN-EN 12873-1 : 2005 + PB-09-A-451 wyd. 1 z dnia 29.06.2009 r. Q	< 2,4·10 ⁻⁵	< 2,4·10 ⁻⁵	< 2,4·10 ⁻⁵	mgdm ⁻² d ⁻¹
Benzo(a)pyrene	< 0,0025	< 0,0025	< 0,0025	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17993: 2005 + IB-10-A-477 wyd. 2 z dnia 16.08.2010 r.	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	mgdm ⁻² d ⁻¹
Σ PAHs ²	< 0,0025	< 0,0025	< 0,0025	mg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17993: 2005 + IB-10-A-477 wyd. 2 z dnia 16.08.2010 r.	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	mgdm ⁻² d ⁻¹

Table 2

Parameter	Results			Unit	Reference method	Results			Unit
	Extract II – second 72h period					Migration A	Migration B	The mean value	
	Blank sample	sample A	sample B						
TOC	< 0,1	0,24	0,47	mg / l	PN-EN 12873-1 : 2005 + PN-EN 1484: 1999 Q	0,005	0,009	0,007	mgdm ⁻² d ⁻¹
Lead	< 1,0	6,9	6,2	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17294-2: 2006 Q	1,4·10 ⁻⁴	1,2·10 ⁻⁴	1,3·10 ⁻⁴	mgdm ⁻² d ⁻¹
Cadmium	< 0,1	< 0,1	< 0,1	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17294-2: 2006 Q	< 2,0·10 ⁻⁶	< 2,0·10 ⁻⁶	< 2,0·10 ⁻⁶	mgdm ⁻² d ⁻¹
Σ Phenols ¹	< 0,0012	< 0,0012	< 0,0012	mg / l	PN-EN 12873-1 : 2005 + PB-09-A-451 wyd.1 z dnia 29.06.2009 r. Q	< 2,4·10 ⁻⁵	< 2,4·10 ⁻⁵	< 2,4·10 ⁻⁵	mgdm ⁻² d ⁻¹
Benzo(a)pyrene	< 0,0025	< 0,0025	< 0,0025	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17993: 2005 + IB-10-A-477 wyd. 2 z dnia 16.08.2010 r.	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	mgdm ⁻² d ⁻¹
Σ PAHs ²	< 0,0025	< 0,0025	< 0,0025	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17993: 2005 + IB-10-A-477 wyd. 2 z dnia 16.08.2010 r.	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	mgdm ⁻² d ⁻¹

¹ phenols: phenol; 2-nitrophenol; 4-nitrophenol; 2,4-dinitrophenol; 2-chlorophenol; 2,4-dimethylphenol; 4-chloro-3-methylphenol; 2-methyl-4,6-dinitrophenol; 2,4-dichlorophenol; 2,4,6-trichlorophenol; pentachlorophenol

² PAHs: benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene

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The results of the chemical influence of the material on water at $23 \pm 2^\circ\text{C}$ (Table 3)

Table 3

Parameter	Results			Unit	Reference method	Results			Unit
	Extract III – third 72h period					Migration A	Migration B	The mean value	
	Blank sample	sample A	sample B						
TOC	< 0,1	0,17	0,33	mg / l	PN-EN 12873-1 : 2005 + PN-EN 1484: 1999 Q	0,003	0,007	0,005	mgdm ⁻² d ⁻¹
Lead	< 1,0	6,9	6,0	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17294-2: 2006 Q	1,4·10 ⁻⁴	1,2·10 ⁻⁴	1,3·10 ⁻⁴	mgdm ⁻² d ⁻¹
Cadmium	< 0,1	< 0,1	< 0,1	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17294-2: 2006 Q	< 2,0·10 ⁻⁶	< 2,0·10 ⁻⁶	< 2,0·10 ⁻⁶	mgdm ⁻² d ⁻¹
Σ Phenols ¹	< 0,0012	< 0,0012	< 0,0012	mg / l	PN-EN 12873-1 : 2005 + PB-09-A-451 wyd.1 z dnia 29.06.2009 r. Q	< 2,4·10 ⁻⁵	< 2,4·10 ⁻⁵	< 2,4·10 ⁻⁵	mgdm ⁻² d ⁻¹
Benzo(a)pyrene	< 0,0025	< 0,0025	< 0,0025	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17993: 2005 + IB-10-A-477 wyd. 2 z dnia 16.08.2010 r.	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	mgdm ⁻² d ⁻¹
Σ PAHs ²	< 0,0025	< 0,0025	< 0,0025	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17993: 2005 + IB-10-A-477 wyd. 2 z dnia 16.08.2010 r.	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	mgdm ⁻² d ⁻¹

The results of the chemical influence of the material on chlorinated water at $23 \pm 2^\circ\text{C}$ (Table 4)

Table 4

Parameter	Results			Unit	Reference method	Results			Unit
	Extract I – first 72h period					Migration A	Migration B	The mean value	
	Blank sample	sample A	sample B						
TOC	< 0,1	0,80	0,60	mg / l	PN-EN 12873-1 : 2005 + PN-EN 1484: 1999 Q	0,016	0,012	0,014	mgdm ⁻² d ⁻¹
Lead	< 1,0	8,1	6,5	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17294-2: 2006 Q	1,6·10 ⁻⁴	1,3·10 ⁻⁴	1,4·10 ⁻⁴	mgdm ⁻² d ⁻¹
Cadmium	< 0,1	< 0,1	< 0,1	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17294-2: 2006 Q	< 2,0·10 ⁻⁶	< 2,0·10 ⁻⁶	< 2,0·10 ⁻⁶	mgdm ⁻² d ⁻¹
Σ Phenols ¹	< 0,0012	< 0,0012	< 0,0012	mg / l	PN-EN 12873-1 : 2005 + PB-09-A-451 wyd.1 z dnia 29.06.2009 r. Q	< 2,4·10 ⁻⁵	< 2,4·10 ⁻⁵	< 2,4·10 ⁻⁵	mgdm ⁻² d ⁻¹
Benzo(a)pyrene	< 0,0025	< 0,0025	< 0,0025	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17993: 2005 + IB-10-A-477 wyd. 2 z dnia 16.08.2010 r.	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	mgdm ⁻² d ⁻¹
Σ PAHs ²	< 0,0025	< 0,0025	< 0,0025	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17993: 2005 + IB-10-A-477 wyd. 2 z dnia 16.08.2010 r.	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	mgdm ⁻² d ⁻¹
Free chlorine	1,0	< 0,03	< 0,03	mg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 7393-2: 2011	-	-	-	-

¹ phenols: phenol; 2-nitrophenol; 4-nitrophenol; 2,4-dinitrophenol; 2-chlorophenol; 2,4-dimethylphenol; 4-chloro-3-methylphenol; 2-methyl-4,6-dinitrophenol; 2,4-dichlorophenol; 2,4,6-trichlorophenol; pentachlorophenol

² PAHs: benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene

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The results of the chemical influence of the material on chlorinated water at $23 \pm 2^\circ\text{C}$ (Table 5 - 6)

Table 5

Parameter	Results			Unit	Reference method	Results			Unit
	Extract II – second 72h period					Migration A	Migration B	The mean value	
	Blank sample	sample A	sample B						
TOC	< 0,1	0,48	0,41	mg / l	PN-EN 12873-1 : 2005 + PN-EN 1484: 1999 Q	0,010	0,008	0,009	mgdm ⁻² d ⁻¹
Lead	< 1,0	7,3	6,7	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17294-2: 2006 Q	1,4·10 ⁻⁴	1,3·10 ⁻⁴	1,4·10 ⁻⁴	mgdm ⁻² d ⁻¹
Cadmium	< 0,1	0,4	< 0,1	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17294-2: 2006 Q	7,9·10 ⁻⁶	< 2,0·10 ⁻⁶	4,5·10 ⁻⁶	mgdm ⁻² d ⁻¹
Σ Phenols ¹	< 0,0012	< 0,0012	< 0,0012	mg / l	PN-EN 12873-1 : 2005 + PB-09-A-451 wyd.1 z dnia 29.06.2009 r. Q	< 2,4·10 ⁻⁵	< 2,4·10 ⁻⁵	< 2,4·10 ⁻⁵	mgdm ⁻² d ⁻¹
Benzo(a)pyrene	< 0,0025	< 0,0025	< 0,0025	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17993: 2005 + IB-10-A-477 wyd. 2 z dnia 16.08.2010 r.	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	mgdm ⁻² d ⁻¹
Σ PAHs ²	< 0,0025	< 0,0025	< 0,0025	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17993: 2005 + IB-10-A-477 wyd. 2 z dnia 16.08.2010 r.	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	mgdm ⁻² d ⁻¹
Free chlorine	0,98	< 0,03	< 0,03	mg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 7393-2: 2011		-	-	-

Table 6

Parameter	Results			Unit	Reference method	Results			Unit
	Extract III – third 72h period					Migration A	Migration B	The mean value	
	Blank sample	sample A	sample B						
TOC	< 0,1	0,15	0,28	mg / l	PN-EN 12873-1 : 2005 + PN-EN 1484: 1999 Q	0,003	0,006	0,004	mgdm ⁻² d ⁻¹
Lead	< 1,0	9,1	8,7	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17294-2: 2006 Q	1,8·10 ⁻⁴	1,7·10 ⁻⁴	1,8·10 ⁻⁴	mgdm ⁻² d ⁻¹
Cadmium	< 0,1	< 0,1	< 0,1	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17294-2: 2006 Q	< 2,0·10 ⁻⁶	< 2,0·10 ⁻⁶	< 2,0·10 ⁻⁶	mgdm ⁻² d ⁻¹
Σ Phenols ²	< 0,0012	< 0,0012	< 0,0012	mg / l	PN-EN 12873-1 : 2005 + PB-09-A-451 wyd.1 z dnia 29.06.2009 r. Q	< 2,4·10 ⁻⁵	< 2,4·10 ⁻⁵	< 2,4·10 ⁻⁵	mgdm ⁻² d ⁻¹
Benzo(a)pyrene	< 0,0025	< 0,0025	< 0,0025	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17993: 2005 + IB-10-A-477 wyd. 2 z dnia 16.08.2010 r.	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	mgdm ⁻² d ⁻¹
Σ PAHs ²	< 0,0025	< 0,0025	< 0,0025	µg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 17993: 2005 + IB-10-A-477 wyd. 2 z dnia 16.08.2010 r.	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	< 5,0·10 ⁻⁸	mgdm ⁻² d ⁻¹
Free chlorine	1,0	< 0,03	< 0,03	mg / l	PN-EN 12873-1 : 2005 + PN-EN ISO 7393-2: 2011	-	-	-	-

¹ phenols: phenol; 2-nitrophenol; 4-nitrophenol; 2,4-dinitrophenol; 2-chlorophenol; 2,4-dimethylphenol; 4-chloro-3-methylphenol; 2-methyl-4,6-dinitrophenol; 2,4-dichlorophenol; 2,4,6-trichlorophenol; pentachlorophenol

² PAHs: benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene

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The results of the chemical influence of the material on water at $60 \pm 2^\circ\text{C}$ (Table 7-9)

Table 7

Parameter	Results			Unit	Reference method	Results			Unit
	Extract I – third 72h period					Migration A	Migration B	The mean value	
	Blank sample	sample A	sample B						
TOC	< 0,1	2,07	1,68	mg / l	PN-EN 12873-1 : 2005 + PN-EN 1484: 1999	0,12	0,10	0,11	mgdm ⁻² d ⁻¹

Table 8

Parameter	Results			Unit	Reference method	Results			Unit
	Extract II – third 72h period					Migration A	Migration B	The mean value	
	Blank sample	sample A	sample B						
TOC	< 0,1	1,92	1,68	mg / l	PN-EN 12873-1 : 2005 + PN-EN 1484: 1999	0,11	0,10	0,11	mgdm ⁻² d ⁻¹

Table 9

Parameter	Results			Unit	Reference method	Results			Unit
	Extract III – third 72h period					Migration A	Migration B	The mean value	
	Blank sample	sample A	sample B						
TOC	< 0,1	1,50	1,13	mg / l	PN-EN 12873-1 : 2005 + PN-EN 1484: 1999	0,09	0,07	0,08	mgdm ⁻² d ⁻¹

The results of the organoleptic influence of the material on water at $23 \pm 2^\circ\text{C}$ (Table 10)

Table 10

No. of the extract	Parameter	Results			Unit	Reference method
		Blank sample	sample A	sample B		
Extract I – first 72h period	Odour	< 1	2,5	2,5	TON	PN-EN 1420-1: 2003 + PN-EN 1622: 2006 + IB-10-A-042 wyd. 1 z dnia 30.07.2010 r. Q
Extract II – second 72h period	Odour	< 1	5	5	TON	PN-EN 1420-1: 2003 + PN-EN 1622: 2006 + IB-10-A-042 wyd. 1 z dnia 30.07.2010 r. Q
Extract III – third 72h period	Odour	< 1	5,6	5,6	TON	PN-EN 1420-1: 2003 + PN-EN 1622: 2006 + IB-10-A-042 wyd. 1 z dnia 30.07.2010 r. Q

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The results of the organoleptic influence of the material on chlorinated water at $23 \pm 2^\circ\text{C}$ (Table 11)

Table 11

No. of the extract	Parameter	Results			Unit	Reference method
		Blank sample	sample A	sample B		
Extract I – first 72h period	Odour	< 1	2,5	2,5	TON	PN-EN 1420-1: 2003 + PN-EN 1622: 2006 + IB-10-A-042 wyd. 1 z dnia 30.07.2010 r. Q
Extract II – second 72h period	Odour	< 1	4	4	TON	PN-EN 1420-1: 2003 + PN-EN 1622: 2006 + IB-10-A-042 wyd. 1 z dnia 30.07.2010 r. Q
Extract III – third 72h period	Odour	< 1	4,7	4,7	TON	PN-EN 1420-1: 2003 + PN-EN 1622: 2006 + IB-10-A-042 wyd. 1 z dnia 30.07.2010 r. Q

The results of the organoleptic influence of the material on water at $60 \pm 2^\circ\text{C}$ (Table 12)

Table 12

No. of the extract	Parameter	Results			Unit	Reference method
		Blank sample	sample A	sample B		
Extract I – first 72h period	Odour	< 1	11,3	11,3	TON	PN-EN 1420-1: 2003 + PN-EN 1622: 2006 + IB-10-A-042 wyd. 1 z dnia 30.07.2010 r. Q
Extract II – second 72h period	Odour	< 1	9,5	9,5	TON	PN-EN 1420-1: 2003 + PN-EN 1622: 2006 + IB-10-A-042 wyd. 1 z dnia 30.07.2010 r. Q
Extract III – third 72h period	Odour	< 1	13,5	13,5	TON	PN-EN 1420-1: 2003 + PN-EN 1622: 2006 + IB-10-A-042 wyd. 1 z dnia 30.07.2010 r. Q

25.09.2014

date

KIEROWNIK LABORATORIUM
 BADANIA WODY I ŚLUBY
[Signature]
 Laboratory Manager
 mgr Maria Waszak

- the end of the test report -

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