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VOC/SVOC TEST REPORT

VOC/SVOC Content

14 October 2019

1 Sample Information

Sample name	AMOTHERM STEEL WB
Sample no.	392-2019-00379301
Production date	19-07-2019
Batch No.	4007897
Sample reception	30/09/2019



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Analytical Service Manager



Morten Sielemann
Analytical Chemist

2 Applied Test Methods

2.1 General Test References

Test	Regulation, protocol or standard	Version	Internal SOP	Limit of detection [g/L]	Uncertainty U _m ± %
VOC/SVOC	ISO 11890-2	2013	71 M 546002	1	20

2.2 Preparation of the Test Specimen

The sample was prepared according to ISO 11890-2.

3 Results

3.1 Results Used in Calculation

	Remarks on the test results	Results	Unit
Density *	Supplied by the Customer	1.33	g/mL

3.2 Total VOC Content

	CAS No.	Results	Unit
VOC content	-	< 1	g/L

3.3 Total SVOC Content

	CAS No.	Results	Unit
Pentaerythritol *	115-77-5	50	g/L
Not identified amine *	-	1.1	g/L
SVOC content	-	52	g/L

4 Appendices

4.1 How to Understand the Results

4.1.1 Acronyms Used in the Report

- < Means less than
- > Means bigger than
- * Not a part of our accreditation
- ⌘ Please see section regarding uncertainty in the Appendices.
- 1 Analysed by another Eurofins laboratory

4.2 Description of VOC/SVOC Content Test

4.2.1 Testing of VOC/SVOC (ISO 11890-2)

Volatile Organic Compounds (VOC) include all organic compounds with an initial boiling point less than or equal to 250 °C measured at standard pressure of 101.3 kPa.

Semi-Volatile Organic Compounds (SVOC) include all organic compounds with an initial boiling point greater than 250 °C and less than 370 °C measured at standard pressure of 101.3 kPa.

The determination is performed in conformity with ISO 11890-2 and the commission decision 2014/312/EU of 28 May 2014 establishing the ecological criteria for the award of the EU Ecolabel for indoor and outdoor paints and varnishes, with its most recent amendments and its most recent User Manual.

Analyses are performed with a slightly polar gas chromatographic column (HP-5). Mass spectrometric detection is used for identification and flame ionization detector is used for quantification. Identified compounds are quantified with their authentic response factors, or with their relative response factors using 1,2-diethoxyethane as internal standard. Remaining unknown peaks are quantified in diethyl adipate equivalents.

4.3 Uncertainty of the Test Method

Um(%): The expanded uncertainty Um is equal to 2 x RSD%.