

TVS Cleancare

VOLATILE ORGANIC COMPOUND (VOC)
INFORMATION



TVS Cleancare is manufactured according to the UNE-EN 14190 standard, based on a Type A plasterboard covered with a high resistance membrane that gives it special waterproofing and easy-cleaning qualities.

Test Description

Determination of Formaldehyde and other carbonyl compounds in indoor air and test chamber air.

Method Description

Active sampling method made in Eurolab Laboratory Services.

Product Intended for Use

Residential (domestic) environment Industrial environment
Commercial and light-industrial environment Medical environment

Scope

ISO 16000 part 3 specifies a determination of formaldehyde (HCHO) and other carbonyl compounds (aldehydes and ketones) in air.

The method is specific to formaldehyde but, with modification, at least 12 other aromatic as well as saturated and unsaturated aliphatic carbonyl compounds can be detected and quantified.

It is suitable for determination of formaldehyde and other carbonyl compounds in the approximate concentration range $1\mu\text{g}/\text{m}^3$ to $1\text{mg}/\text{m}^3$. The sampling method gives a time-weighted average (TWA) sample. It can be used for long-term (1h to 24h) or short-term (5 min to 60 min) sampling of air for formaldehyde.

Test Method

In the first stage, VOC and HCHO values inside the cabin were measured. The sample was then placed in the test chamber and run for one day and left in the test chamber. In the second stage, measurements were taken again in the cabinet to understand the effect of the sample.

Test		Suitable Limit Value	
Volatile Organic Compounds (VOC) Test		1 tile $3\text{mg}/\text{m}^3$	
Test Chamber Parameter			
Chamber Volume SI	--	Relative Humidity %	40 ± 5
Temperature °C	25 ± 1		

Test Condition: sample stayed in test during the whole 1 day testing period.

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Physical Properties and Performance

Covered by a harmonised standard: BS EN14190:2014 / BS EN 13501-1
Plasterboard transformed products / Suspended ceilings
Requirements and test methods according: BS EN 13964:2014

Length (mm):	600, 1200
Width (mm):	300, 600
Thickness (mm):	8
Colour:	Smooth white
Edge Type:	A (square edge)
Weight:	5,80Kg/m ²
Reaction to Fire:	A2 s1 d0
Light reflectance:	88%
Moisture resistance:	90% relative humidity
Thermal conduct.:	0.25 W/mK
Packaging:	Carton of 8 tiles

First Measured Value (mg/m ³)	Second Measured Value (mg/m ³)	VOC value of the sample to the environment (mg/m ³)
0.61	0.484	0.323

ISO 16000-3

PASS

TEST No 2022030324



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