

TREMCO CPG MALAYSIA Report No. TR 2210-1354

Cleanroom Suitable **Materials**

Flowshield ESD CR Conductive

Outgassing VOC/SVOC ISO-ACC_m Class -5.9 / -9.1

FLOORING & COATING

Single product **Outgassing Behavior** VOC/SVOC

Qualification Certificate

We hereby certify that the material stated above, provided by

TREMCO CPG MALAYSIA SDN BHD Kuala Lumpur, Malaysia

has been awarded the Fraunhofer IPA CSM Certificate of Qualification with the report number TR 2210-1354.

The outgassing behavior of Flowshield ESD CR Conductive (color: charcoal) at the stated temperatures was investigated according to VDI 2083 Part 17 and ISO 14644-15. Based on the outgassing rates determined for the specific surfaces, the following material classification was made for the corresponding Contaminant Category:

Contaminant Category (x)	SER _a ¹⁾ 23 °C [g/m²s]	SER _a ¹⁾ 90°C [g/m²s]	ISO-ACC _m Class (x) based on 23°C
VOC	1.3 x 10 ⁻⁶	Due to over- load of the ana- lytical system no quantitative result can be reported	- 5.9
SVOC	8.5 x 10 ⁻¹⁰		-9.1
Amines	1.1 x 10 ⁻⁷		
Organophosphates	< 2.8 x 10 ⁻¹⁰		
Siloxanes	< 2.8 x 10 ⁻¹⁰		
Phthalates	< 2.8 x 10 ⁻¹⁰		

1) SER₃: Area-specific emission rate

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under

www.tested-device.com.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

TR 2210-1354 Report No. first document

Report No. current document

Stuttgart, March 3, 2023

Place, date of first document issued

on behalf of Molo Soume

