



TREMCO CPG MALAYSIA  
Report No. TR 2210-1354

# Cleanroom<sup>®</sup> Suitable Materials

Flowshield CR  
Outgassing VOC / SVOC  
ISO-ACC<sub>m</sub> Class -6.5 / < -9.6

## 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 CR (color: yellow) 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 <sub>a</sub> <sup>1)</sup> 23 °C [g/m <sup>2</sup> s]	SER <sub>a</sub> <sup>1)</sup> 90 °C [g/m <sup>2</sup> s]	ISO-ACC <sub>m</sub> Class (x) based on 23 °C
VOC	$3.3 \times 10^{-7}$	Due to overload of the analytical system no quantitative result can be reported	-6.5
SVOC	$< 2.8 \times 10^{-10}$		< -9.6
Amines	$< 2.8 \times 10^{-10}$		--
Organophosphates	$< 2.8 \times 10^{-10}$		--
Siloxanes	$< 2.8 \times 10^{-10}$		--
Phthalates	$< 2.8 \times 10^{-10}$		--


<sup>1)</sup>SER<sub>a</sub>: Area-specific emission rate

TR 2210-1354  
Report No. first document

--  
Report No. current document

Stuttgart, March 3, 2023  
Place, date of first document issued

--  
Place, current date

on behalf of 

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](http://www.tested-device.com).

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