

Lab Test report: 55,88% Reduction in NO produced by Green® fabric

Test de laboratorio: Reducción de NO producida por el tejido Green® del 55,88%



Fraunhofer Institute for Surface Engineering and Thin Films IST

Test Report · Test de laboratorio

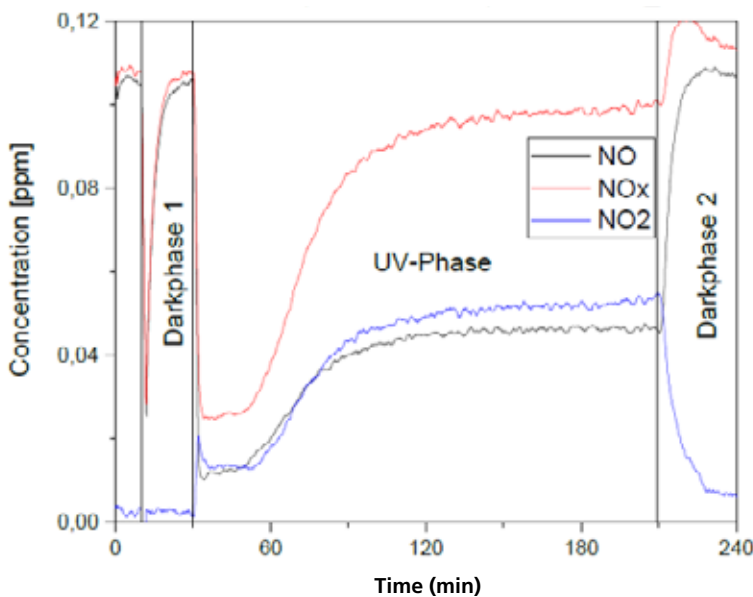
Braunschweig (Germany), 12 August 2019

Determination of the photocatalytic air-cleaning performance of SAULEDA fabrics towards nitric oxide in a stirred tank reactor

Quotation-No.: Ne20190607-01

Specific test results:

SAULEDA - CEN/TS-1-1_1



Specific test results:

Exemplary image of the test specimen:



SAULEDA

According to the results above the tested sample

SAULEDA

exhibits an intrinsic NO photocatalytic abatement rate k_R of 10,84 m/h with **a total NO conversion of 55,88%**.

Table of test result in accordance with ISO 31-0:

Sample	NO inlet concentration [ppmv]	NO abatement rate [$\mu\text{g}/(\text{m}^2 \cdot \text{h})$]	NO ₂ production rate [$\mu\text{g}/(\text{m}^2 \cdot \text{h})$]	NO _x abatement rate [$\mu\text{g}/(\text{m}^2 \cdot \text{h})$]	Overall conversion of NO [%]	NO photo-catalytic abatement rate [m/h]
	c_{NO}^{IN}	$r_{NO,i}^{photo}$	$r_{NO_2,i}^{photo}$	$r_{NO_x,i}^{photo}$	$\eta_{NO,i}^{total}$	$k_R = \frac{r_{NO,i}^{photo}}{c_{NO}^{IN}}$
SAULEDA	1,0543	1384,53	1856,56	261,77	55,88	10,84