



Test Report N. GM/1.2020

2G NanoTech Srl
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Test: testing of degradation of **NOx** in air on different samples

Milan, 14/12/2020

Date of receipt	November 2020
Material	Coatings
Sample name	Coatings
Test information	<ul style="list-style-type: none">• Test of photodegradation of NOx in air.• Tested sample: 2x20 cm in size.• Light source: UV-A Jelosil 500, intensity 2.0 mW/cm². Exposure time: 3 h. Initial concentration of NOx: 1000 ± 100 ppb in synthetic air.• Type of reactor: for research purposes. Results published in international scientific journals ^{1,2,3,4}.• Analytical method: chemiluminescence (SERINUS 40).• Sampling made by customer.

Results

The performance towards the degradation of NOx for the materials under test is here reported.

Sample	% NOx 30 min	% NOx 1h	% NOx 3h
FN 3	88	93	95

The Scientific Director
Prof. Claudia Letizia Bianchi

¹ J. Phys. Chem. C 111 (2007) 13222

² Nanoscale Research Letters 4 (2009) p.97

³ Cement and Concrete Composites, 36 (2013) 116-120

⁴ Chemical Eng J, 261, (2015) 76-82