

# Report following the order dated 05.04.2018 placed by Photocat A/S Roskilde

## Photocatalytic activity test concerning the Degradation of NO

A concrete sample (Adybor 100A) has been tested concerning the photocatalytic degradation of NO in the gas phase without any pretreatment.

### Degradation of NO<sub>x</sub> according to ISO 22197-1 Standard

The photocatalytic NO-Oxidation is measured with an apparatus in which synthetic air (relative humidity 50%) containing 1 ppm NO is flowing at a rate of 3 L/min across the surface of a sample with an illuminated surface area of 50 x 100 mm<sup>2</sup>. The measurement is performed employing a NO/NO<sub>2</sub>-Analyser equipped with a fluorescence detector that has a detection limit of 1 ppb NO. The illumination is performed with UV(A) light at an intensity of 1.0 mW/cm<sup>2</sup> measured at the surface of the samples.

---

D-TOX

Anja Hülsewig  
c/o Institut für Technische Chemie  
Callinstr. 3  
D-30167 Hannover

Tel: ++49 (0)511 762-556  
Fax: ++49 (0)511 762-2774  
e-mail: info@messlabor-photokatalyse.de  
anja@huelsewig.org