

# MANAGEMENT SYSTEM CERTIFICATE

Certificate No:  
124113-2012-AE-SWE-RvA

Initial certification date:  
19 December 2012

Valid:  
30 September 2018 - 30 September 2021

This is to certify that the management system of

## **Akzo Nobel Functional Chemicals AB, Ethylene Amines**

Udevallavägen 17, 444 85, STENUNGSUND, Sweden

has been found to conform to the Energy Management System standard:  
**ISO 50001:2011**

This certificate is valid for the following scope:

**Manufacturing of ethylene amines, ethanol amines,  
ethylene oxide and glycols.**

**Surface Chemistry: Manufacturing of anionic, cationic, nonionic and  
amphoteric surfactants including specialties as feed additives.**

Place and date:  
**Barendrecht, 21 August 2018**



For the issuing office:  
**DNV GL – Business Assurance  
Zwolsseweg 1, 2994 LB, Barendrecht,  
Netherlands**

**Erie Koek**  
Management Representative