



Arquad MCB-50, Arquad 2.10-50, Triameen Y12D-30

Influence of protein load on the biocidal efficacy

Introduction

Fatty amines and derivatives are widely used in formulations for the control of bacteria, fungi and algae.

Product

AkzoNobel produces an extensive range of fatty amine derivatives with antimicrobial properties. The outstanding features of fatty amine derivatives as disinfectant are high efficacy against a broad spectrum of micro-organisms and relatively low toxicity when used at recommended use level. AkzoNobel Surface Chemistry committed to continue activities within the field of biocides after the implementation of the BPD. Arquad MCB-50, Arquad 2.10-50 and Triameen Y12D-30 are notified and will be registered and accordingly will continue to be available for our customers in the future. These products have been compared and studied in dirty conditions.

Protein load

It is commonly known that organic load has a negative impact on the biocidal efficacy of disinfectants. That is why the European Standards for testing of disinfectants include two levels of protein load in order to simulate clean and dirty conditions in practice. For this study two bacteria; *Pseudomonas aeruginosa* (gram negative bacteria) and *Staphylococcus aureus* (gram positive bacteria), were tested with method EN 1276. Furthermore one fungi; *Aspergillus niger* (filamentous fungi) was tested with method EN 1650 (1997).

The following guideline formulations were tested:

Arquad MCB-50

15%	Arquad MCB-50
9%	Dissolvine E39
3%	Berol 175
Balance	Water

Arquad 2.10-50

7.5%	Arquad 2.10-50
Balance	Water

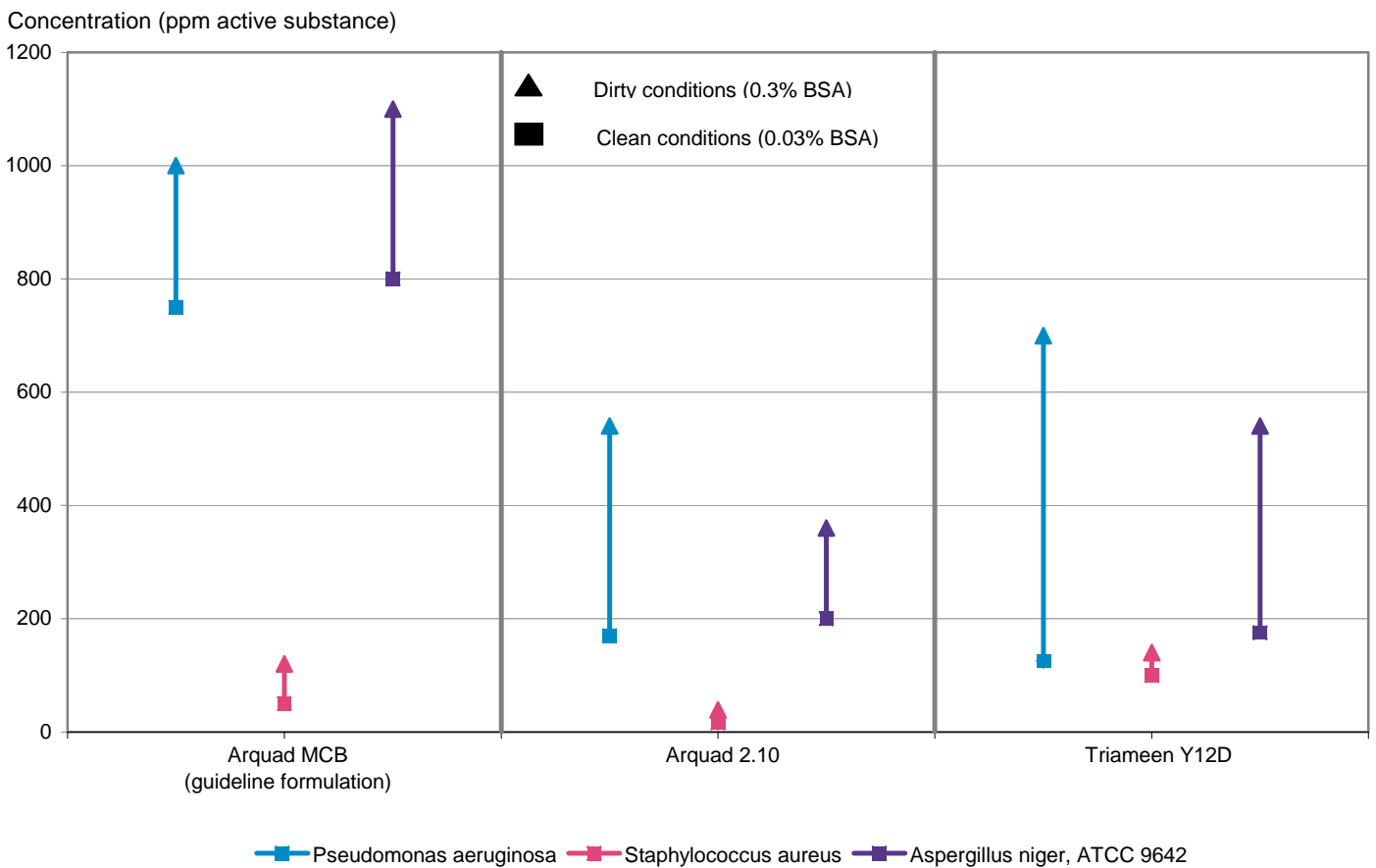
Triameen Y12D-30

Product as such



Influence of protein load on biocidal efficacy of fatty amine based biocides

Test method: EN 1276 respective EN 1650
Water hardness: 17°dH



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