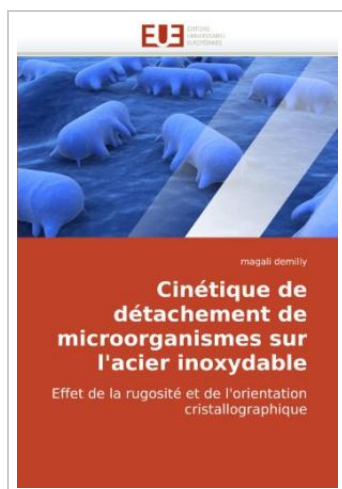




Cinétique de Detachement de Microorganismes Sur L'Acier Inoxydable

By Magali Demilly

ED UNIVERSITAIRES EUROPEENNES Aug 2015, 2015. Taschenbuch. Book Condition: Neu. 229x152x9 mm. Neuware - Les phénomènes de bioadhésion de microorganismes sur les aciers inoxydables sont fréquents et peuvent entraîner des problèmes de santé publique tels que des infections toxicologiques. En partenariat avec Ugine-Alz, nous nous sommes intéressés, à l'aide d'une chambre à flux radial, à l'étude quantitative des cinétiques de détachement de trois microorganismes après adhésion sur des surfaces d'acier inoxydable: *S.cerevisiae*, *E.coli* et *S.epidermidis*. Les aciers inoxydables utilisés sont des échantillons polis miroir et polis attaqués avec des tailles de grain et des profondeurs d'attaque des joints de grain différentes. L'utilisation de ces différents états de surface ne modifie pas la valeur de la contrainte nécessaire pour détacher 50% des microorganismes (seuil de détachement). Par contre, la profondeur d'attaque des joints de grain et la taille de grain accélèrent la cinétique de détachement de *S.cerevisiae* et ralentissent celle d'*E.coli*. Enfin, une adhésion préférentielle a été mise en évidence, pour les trois microorganismes, sur les grains d'orientation cristallographique ;001; (Demilly et al, Colloids and Surface B Biointerfaces 51 (2006),71-79). 148 pp. Französisch.



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