

HEAT EXCHANGER DESIGN HANDBOOK WEBINAR SERIES

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CLEANING OF HEAT EXCHANGERS

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Abstract

Fouling of heat exchangers installed in industrial facilities may lead to energy loss, restrictions in production, quality, and reliability issues. To address these fouling issues heat exchangers are being cleaned. Cleaning methods can be divided into three main categories:

- Mechanical cleaning.
- Chemical cleaning.
- Thermal cleaning.

This presentation discusses various cleaning methods which fall in the above-mentioned categories or combination of these categories. And will go step-by-step through the thought process of deciding which cleaning method could be suitable for a specific fouling case.



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Hans Borgt is globally responsible for industrial cleaning within the Dow Chemical Company, where he is the global technology associate-industrial cleaning. Before joining Dow in 2007, he worked for 10 years in the industrial automation space. Hans holds a degree in chemical engineering and in material science. He was the driving force working to eliminating hydroblasting and introducing of new, and innovative cleaning technologies at Dow where the focus, besides safety, is towards efficiency and quality improvement. Besides his extensive work at the Dow Chemical Company, Hans is a part of the executive board of the Foundation for Industrial Cleaning (SIR) in the Netherlands and Belgium, president of the European Water Jetting Institute (EWJI), co-chair of the Global Industrial Cleaning Recommendations Committee (GICC), project lead within the Knowledge and Innovation Center for the Maintenance Process Industry (KIC-MPI), and editorial board member of the Heat Exchanger Design Handbook (HEDH). He is an international expert for the ISO TC 35 / SC 12 / WG 3 (Surface preparation for painting and coating on steel surfaces), and IEC TC 61 SC 61J (WG Electrical motor-operated cleaning appliances for commercial use UHP and CO2 blasting). Hans also lectures on industrial cleaning at Avans University for Applied Science in Breda.