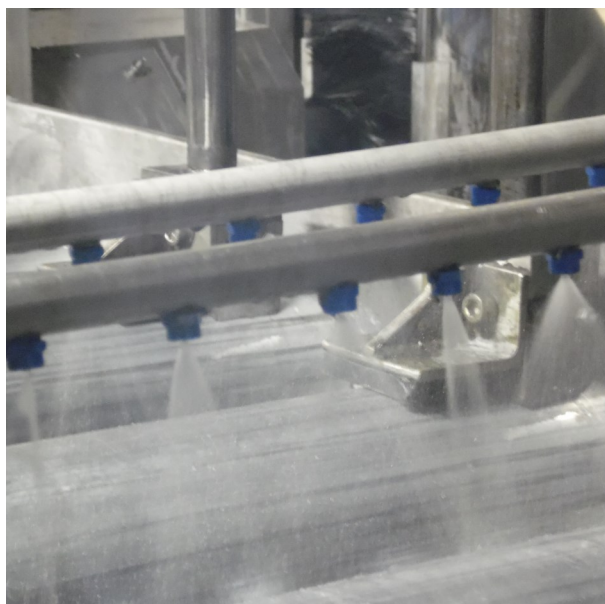


Automotive

The Unique Challenge

An automotive manufacturer in Canada was having residue issues in their engine assembly process.

The OEM was using Quakerclean 624 CP. This cleaner was leaving residues on crankshafts causing a high part rejection rate. This led to very high costs related to scrap, productivity and labor.



The Houghton Approach

Houghton engineers suggested they switch to **Cerfa-Kleen® 5285-US**, a biostable spray wash cleaner with several automotive approvals that provides rust protection and excels in high pressure washers.

Case Study:

Cerfa-Kleen® 5285-US – a low residue cleaner with rust protection and automotive approvals

Results and Benefits

Once the washer was converted to **Cerfa-Kleen® 5285-US** scrap was eliminated. **Cerfa-Kleen® 5285-US** left adequate rust protection on the part with less film than the incumbent product. The decrease in scrap resulted in a savings of over \$435,000 annually.

Cerfa-Kleen® 5285-US showed outstanding cleaning capability for optimal soil removal and biostability



*Total Savings Over \$435,000
Annually*



HOUGHTON®

Fluid Partnerships Making A World Of Difference

Case study after case study demonstrates why Houghton International is leading the global Metalworking Fluids market today. More than 20,000 customers worldwide across a diversified range of manufacturing processes have improved operations due to the mission-critical product portfolio of Houghton.

Building A Team For Customer Success

An approach that combines chemistry and technology with business expertise uniquely positions Houghton to support customer growth and changing market requirements. With around 2,000 employees in 80 countries, and 12 manufacturing facilities in 10 countries, we are well prepared to capture regional and local business opportunities and support growing expansion of global customers.

Through innovation, expertise and efficiency, our engineers and business specialists are able to build a team with the customer that ensures product optimization, employee health and safety, procurement and logistics management, and reduction of environmental impact. By providing both the solution to customers' fluid challenges and the foundation for continued improvement, Houghton offers a proven method of sustainable profitability.

For immediate consideration and evaluation of your fluids needs, and to request additional support material, please contact your Houghton International sales representative at www.houghtonintl.com

Houghton International Product Portfolio



● Metal Removal	35%
● Hydraulic Fluids	14%
● Steel Rolling	12%
● Metal Finishing	12%
● Non-Ferrous Rolling	7%
● Heat Treatment	7%
● Metal Forming	5%
● Metal Protection	4%
● Metal Cleaning	3%
● Other	1%

Established Client Relationships

Houghton International has long-standing partnerships with over

20,000 Leading Global Customers

serving their metalworking fluids needs across a wide range of applications and diversified end-markets including ***automotive, aerospace, fabricated metal goods, bearings, energy, non-ferrous and steel.***



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