



INDUSTRIAL PROCESS CLEANERS

FORMULATED THROUGH INDUSTRY KNOWLEDGE

THE HOUGHTON RANGE OF INDUSTRIAL CLEANERS

The Houghto-Clean range of industrial process cleaners have been designed to meet the requirements of modern manufacturing. Using our intimate knowledge of the chemistry and properties of the contaminants our multi-functional and specific application cleaners deliver the performance you need.

AQUEOUS PROCESS CLEANERS

Neutral to highly alkaline cleaners formulated for spray wash, immersion, flood washing, multi modal washing and mass finishing applications. Products provide single and multi metal compatibility, reduced temperature application and extended ferrous corrosion protection. Suitable for light duty cleaning, as well as the removal of oils, greases, carbon, corrosion and surface coatings

EMULSION CLEANERS

Highly effective macro-emulsion cleaners to clean and apply a corrosion preventative film in one application

SOLVENT CLEANERS

Solvent cleaners formulated from petroleum and renewable resources for manual, immersion, low-pressure spray and pseudo vapour applications. Includes non-VOC products

ACIDIC CLEANERS

Acidic cleaners for spray wash, immersion and other applications requiring an acidic pH

SYSTEM CLEANERS AND PERFORMANCE ADDITIVES

Cleaning products for individual machines, central systems and hydraulic fluid distribution systems. Additives help to enhance specific properties of the Houghto-Clean range

MAINTENANCE CLEANERS

Cleaning products formulated specifically for housekeeping cleaning needs within the manufacturing environment

With ever increasing demands on end product performance driven by growing process complexities and exacting tolerances, the performance of industrial process cleaners has never been more important.

Industrial process cleaning is often a neglected element within the overall manufacturing process. Valuable profit, productivity and quality gained through the optimisation of the manufacturing process can be lost if cleaning is not optimised.

By helping to reduce product failures, re-work and energy usage, Houghto-Clean industrial process cleaners, provide further opportunities to maximise productivity and profits.

The correct choice of cleaner is only the start, solution monitoring, in use solution laundering, and the eventual disposal of the used solution are all key element of an effective and efficient process. Houghton's knowledge and expertise can guide you through the total process to help you gain further competitive advantages.



OUR APPROACH

WHAT ADDED VALUE CAN HOUGHTON OFFER?

Because every operation is unique, we review all your inputs, outputs, control parameters and constraints before proposing the best optimal solution for your operation.



THE BENEFITS

GET RESULTS WITH HOUGHTON

- Our cleaning products have been formulated to perform synergistically with some of our other process fluids
- Cleaning technologies use our state-of-the-art developments in water based chemistries and supported by industry-leading technologists
- Supported by experts in cleaning applications and the pre and post operations
- Our cleaning products are formulated for specific applications within our key operating market and used by leading manufacturers
- Can help increase productivity, quality, reduce cleaning costs and provide additional routes to gaining a competitive advantage
- Our cleaning technologies and application expertise contribute to optimising your energy consumption

FLUIDCARE SERVICES

Houghton believes that it is not simply enough to supply you with the best possible metalworking fluids. Working in partnership with you, we ensure you get the very best value from those fluids, maximising performance over an extended lifetime. In this way you continue to enjoy the benefits delivered by our cutting-edge products for longer with a lower overall cost. With our dedicated Fluidcare engineers available on your site, we provide the peace of mind that our

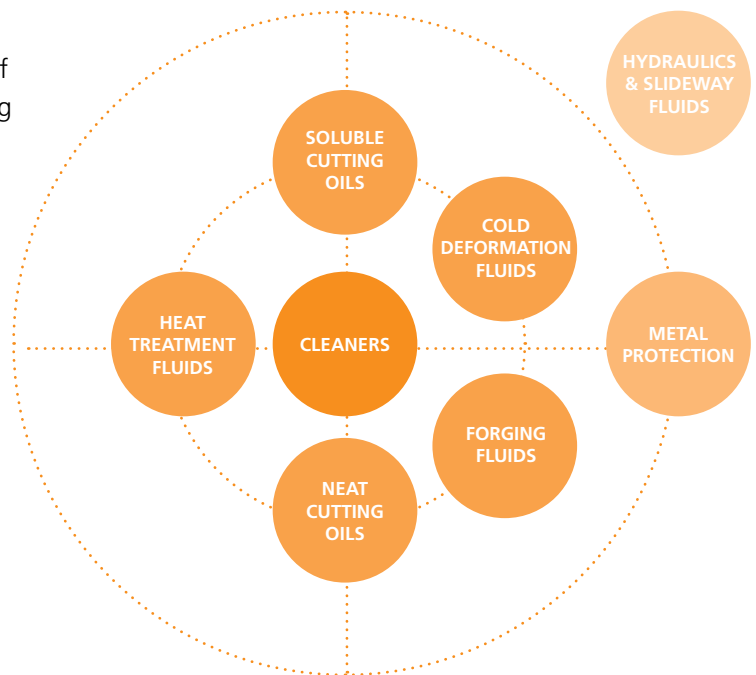
expertise is always on hand to solve any issues quickly and keep fluids in top condition. If active on site service is a step too far, one of our many equipment options can help overcome specific problems. With service, equipment or both, Houghton can ensure the working life of your tooling and the quality of your output will be maximised while your fluid associated safety risk and environmental impact are minimised.

CONNECTING CHEMISTRY

Houghton understands that your operation consists of a flow of different processes using different processing fluids and so our products are designed to work with each other.

Houghton's Industrial Process Cleaners have been formulated to work synergistically with other Houghton fluids such as Cut-Max Neat Cutting Oil, Hocut Soluble Fluids, Mar-Temp Quenching Oils, or Rust Veto metal protection products. They will prepare your components for subsequent operations whether it is manufacturing, storage or for final presentation to your customers.

This diagram shows where Houghton Industrial Cleaners work with and compliment the whole Houghton portfolio of industrial process fluids.



HOUGHTON

YOUR FORMULA TO MOVE FORWARD

Houghton delivers the fluid solutions to smooth the manufacturing industry's journey to a safer, more efficient and sustainable future. A wide portfolio of cutting-edge products and our Fluidcare services keep your fluids in top condition for longer, increasing productivity and reducing your costs. Our experience, global coverage and ISO9001/14001 accreditations make us your ideal metalworking fluids partner.

To find out how you could benefit from Houghton's fluid solutions book a consultation now.

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