



HOUGHTON®

ZERO DISCHARGE SPRAY WASHER PROCESS

A common problem facing manufacturers using metal and surfacing finishing conversion coating processes today is the need to consider the expense and effluent discharge liabilities of the process water. Houghton International has developed a proven approach combining our innovative chemistry with related equipment to allow our customers to eliminate all process water discharge from their spray washers. This process has allowed our customers to eliminate waste water permitting, notice of effluent violations, and all related cost associated with excessive water usage.

The components of the process include ...

CHEMISTRY

The key component of the process is Houghto-Clean, Houghto-Prep ZP and Houghto-Seal technology that provide extremely low conductivity in the processing baths. This combination of low bath solids is the cornerstone of reducing the volume of incoming water normally associated with traditional conversion coating processes. All Houghton chemistry is also designed for maximum oil rejection in order to facilitate longer bath life and easier removal of accumulating soil.

EQUIPMENT

The equipment portion of this process includes customized equipment to remove oil and other organic / inorganic soil, counter-flow both water and process chemicals, economically heat the process, and evaporate the small amount of residual process water potentially leaving the system.

PROCESS KNOWLEDGE

It is essential that Houghton International have an internal plant champion dedicated to working with our team on analysis of the current process, implementation of Houghton chemistry, and finally with process equipment planning and installation. The Zero Discharge Process must be viewed as a collaborative team effort in order to provide optimum results in the shortest time-frame.



Fluid Partnerships Making a World of Difference

Houghton International Inc.

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