

Challenges

A leading UK manufacturer of pressed quality automotive components was looking to improve efficiencies in its pressing operations, which included two 2.000-litre tank Blank Wash Units. The manufacturer was experiencing process issues with its current corrosion preventive fluids, including pooling of lubricant (causing build up and necessitating regular cleaning of dies) and heavy consumption of product due to its thixotropic nature. In addition, film weight control was not being consistently met within the manufacturer's specs. The manufacturer wanted to overcome these lubricant issues as well as decrease costs.

To help improve their operations, Quaker recommended switching to FERROCOTE® 6161, a high-performing corrosion preventive with excellent deep drawing characteristics. By making this switch, Quaker wanted to show the manufacturer they would achieve improved film weight control, reduced machine cleaning time, and a reduction in product cost.

Providing Solutions

After conducting extensive testing to determine the best product fit, Quaker recommended and introduced FERROCOTE® 6161 into one 2.000-litre Blank Wash system. After a trial period of two months, product consumption was reduced by 80% and product cost was reduced by 26% – equaling a savings of approximately £19,500 (\$USD 39,000) for both systems.

	Competitive Product	Quaker Product
Monthly Product Usage	800 Litres	150 Litres

Also during this trial period, the film weight was more consistent and in line with the customer's process – showing an average of 2.5 g/m². The graph at the bottom of this page shows the details on film weight consistency.

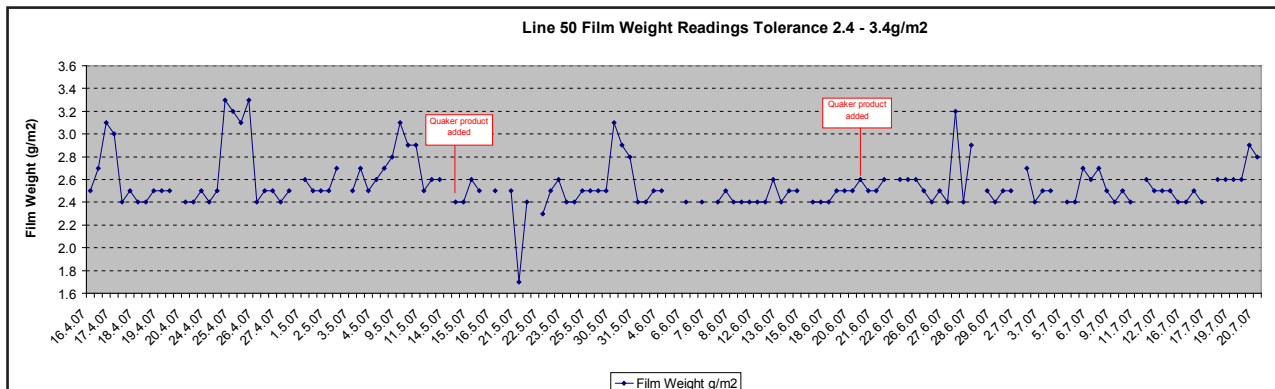
In addition, by using FERROCOTE® 6161 during the trial period, the manufacturer saved at least one hour of cleaning time per eight-hour shift, because they no longer had pooling of lubricant or build up in dies.

Based on the positive results of the trial, the manufacturer immediately switched to FERROCOTE® 6161 in its second Blank Wash unit as well.

Product Description

FERROCOTE® 6161 is a blank wash and protective oil for steel sheets. It is a good corrosion preventive for transport and medium protection at indoor storage, combining a low viscosity with excellent deep-drawing characteristics.

The product offers high protection: up to over 20 cycles, according to DIN 50017-SFW on Steel and Zinc-coated Steel. It is easy to apply (also in old roll-on systems), and has excellent lubrication on CRS and Zinc-coated surfaces. FERROCOTE® 6161 is stable (no heated storage required), has no hazardous components (Barium-free), has low aromatic components and offers good cleanability.



Process & Equipment

Part:	Body Panels
Material:	Steel and HDG
System Size:	2,000 litres
Viscosity:	17.5 cSt
Application Pressure:	Transfer roll
Filtration System:	Filtermist
Specific Operation:	Pressing
Press Type:	Schuller & Muller Weingarten

Product & Process Expertise

Metalworking lubricants represent a very minor part of the costs in a metalworking process, typically less than 1%. This case illustrates the importance of correct fluid selection. The impact of the fluid can be a multiple of its costs, making the price of a metalworking fluid insignificant. That is why Quaker focuses on developing fluids with the highest performance without compromise, fluids that sharpen your competitive edge.