

# COOLPHOS®

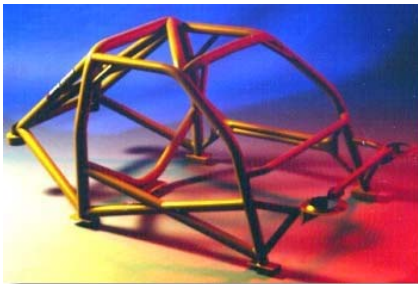
Low Temperature Active Cleaning & Phosphating



**An Environmentally Safe Process**

# COOL-PHOS®

## Unique one tank phosphating system



### Low Environmental Impact Solvent-based Process

Cool-Phos® is a formulated solution containing dichloromethane as its main ingredient along with other solvents, intermediaries and activators.

Cool-Phos® is non-flammable and stable for continuous use. It is biodegradable and does not attack the ozone layer, contribute to the greenhouse effect or ground level ozone.

### Low Temperature – Energy Efficient

Cool-Phos® has a low boiling point of 38°C and there is only one process tank, so no drying tank is required. Low temperature means low energy consumption (an advantage with regards to the carbon tax and greenhouse effect from energy production).

### Active Cleaning and Phosphating

The Cool-Phos® process produces active cleaning because it involves spray rinsing, immersion in the boiling Cool-Phos® liquid and surface reaction.

Phosphating of the work takes place during the immersion phase of the process by surface contact of the parts with the boiling Cool-Phos®. The Cool-Phos process is most commonly used for mild steel, aluminium and zinc which will receive a surface etch during the process giving a superior finish to normal degreasing.

### Excellent Finish Appearance and Coating Adhesion

The active cleaning gives a superbly clean surface. In addition the phosphate layer produced by the Cool-Phos® improves the adhesion of subsequent coatings, and increases the physical bond between the paint film and the metal.

### Manufacturing Advantages

The phosphate layer produced by the Cool-Phos® process protects the metal surface from moisture meaning parts can be stored without additional protection prior to finishing without the risk of rusting or other corrosion. Processed parts can be subjected to other operations before finishing, such as tempering, quenching and welding (without oil spatter).



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### Simple to Control and Use

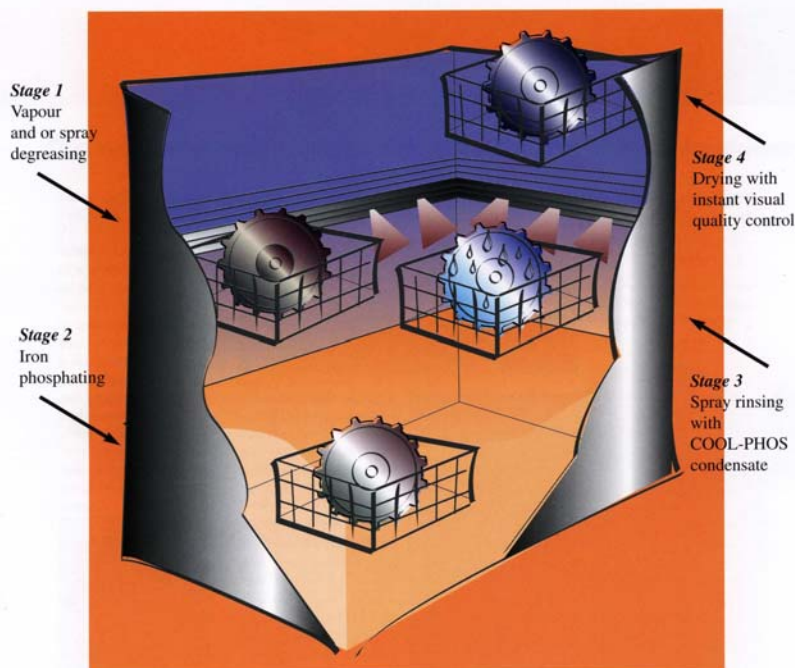
The Cool-Phos® process requires that the level of Cool-Phos® liquid in the process be maintained and a simple-to-use test kit is provided to maintain the phosphating reagents. The processing cycle will be familiar to manufacturing personnel as it is similar to that used in normal vapour degreasing except that there are two additional stages, immersion and rinsing.

### Short Processing Times

The low temperature and control of the Cool-Phos® process means that the processing normally takes between 4 and 8 minutes. In a one-dip, four stage non-aqueous process, which takes place in a single tank, Cool-Phos® actively cleans and phosphates parts, leaving them cool and dry.

### Space Saving

Only one process tank is required, there is no drying oven. The floor space requirement for equipment is the same as a vapour degreasing plant that would use a similar-sized workbasket.



### Plant Manufacture

A Cool-Phos® plant is manufactured to well-established criteria, and can be made by any reputable manufacturer with backup from Stowlin Croftshaw. Alternatively, we can liaise with the manufacturer on your behalf regarding the design.

### Reliable Results

Included in the price of Cool-Phos® is training of operators so they can understand and control the Cool-Phos® process. Regular visits are undertaken at your convenience by our Technical Service Engineers to independently check the process. Regular samples are analysed by our laboratories as a further check. Quality control is assured as the emerging parts will be blue in colour.



Croftshaw Solvents Ltd. are part of the Stowlin Group of Companies

- 75 years combined experience supplying high quality innovative cleaning solutions and processes
- Continuous research and improvement to develop new solutions which have minimal impact on people or the environment
- Total service from the smallest company to multisite multinationals
- Continuing after care service is included in the price of all of the products in the Croftshaw range:  
Training of operators and management  
Ongoing support from our technical representatives and laboratories to maintain systems  
Recycling of exhausted materials
- Stocks of products maintained by our team of distributors at strategically sited warehouses in the UK

**COOL-PHOS<sup>®</sup>**

is a product of Croftshaw Solvents Ltd. and is a registered trademark.

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