



# master CHEMICAL



## TRIM<sup>®</sup> CLEAN 2115AL

TRIM<sup>®</sup> CLEAN 2115AL is a high performance, very low foam washing compound for use in very high pressure spray washers, de-burring and water jet cutting. Master Chemical has used advanced surfactant technology to provide excellent foam control, oil rejection and soil removal. This product is suitable for cleaning all aluminium alloys and a wide range of other materials including cast iron, steels, plastics and composites.

### Features and benefits

- TRIM<sup>®</sup> CLEAN 2115AL** has very little foam at very high pressure even at ambient temperatures
- TRIM<sup>®</sup> CLEAN 2115AL** does not stain aluminium alloys
- TRIM<sup>®</sup> CLEAN 2115AL** rejects oil and even some soluble oils
- TRIM<sup>®</sup> CLEAN 2115AL** provides good ferrous corrosion protection

**Full information on request:**

**info@masterchemical.co.uk**

**☎ +44(0) 1449 726800**



[www.masterchemical.com](http://www.masterchemical.com)



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## CASE STUDIES

### Automotive fastenings manufacturer

**OBJECTIVE:** The customer required a product that would meet their OEM automotive customer's cleanliness specification which their existing product could not.

**OPERATION:** The customer uses a multi stage spray washing process, operating at 1 bar, 50°C with a 1 minute cycle time. The system was washing coolant residue from machined aluminium castings.

**OUTCOME:** The customer installed TRIM® CLEAN 2115AL for a trial period. The product met the automotive manufacturers specification and the customer converted their spray wash system immediately to TRIM® CLEAN 2115AL.

#### Local distributor:

### OEM automotive manufacturer

**OBJECTIVE:** The customer manufactures its own range of cars, and required a product to wash aluminium cylinder heads that have steel inserts. The successful product had to last in good condition more than 16 weeks in the wash system, leaving no residue, be non staining, have no foam and be competitively priced. The customers existing product was only lasting 2-4 weeks before requiring disposal.

**OPERATION:** Four High Pressure Spray tunnel type washers running at 16 bar. Operating temperature was between 30-35°C. There was a cleanliness specification of 10mg – 30mg.

**OUTCOME:** TRIM® CLEAN 2115AL was installed in the wash machines at 3-5% concentration. After 17 weeks in the washers the product met all the criteria specified by the customer and was proved to be recyclable with a Xybex® waste minimisation system.

Operators reported that there was no smell when the machines were started up after the shutdown period and that the components were coming out of the washer much cleaner than had been previously achieved with another product.

TRIM® CLEAN 2115AL gave the customer significant improvements in their wash application. Not only has it proven to out perform the current product in cleanliness and sump life it has also reduced the cost per unit produced.

### Automotive subcontractor

**OBJECTIVE:** The customer needed to find a cleaning product to use in their high pressure cabinet spray washer that did not foam. All previous products that had been tried had regularly foamed all over the factory floor.

**OPERATION:** TRIM® CLEAN 2115AL was installed in a Hydrotech Wash system. This system is a cabinet spray washer operating at 3500 psi for between 1.5 and 5 minutes, at ambient temperature. It washes different sized power train manifold blocks. The parts are cast iron manifold blocks with many blind holes. There is a centrifuge attached to the machine to clean the fluid before being returned to the tank.

**OUTCOME:** TRIM® CLEAN 2115AL has not produced any foam since its installation. It is still meeting the customer's cleaning specification and lasts much longer in the tank than all previous fluids. Machine downtime has been reduced to one clean out per year. Previously the machine's fluid was changed fortnightly due to the foam. The cleaner has now been installed into the other wash machines in the shop, including a Turbex machine washing Aluminium components. It is also being used as a grinding fluid throughout the shop.



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