



# master CHEMICAL



## TRIM® C115

TRIM® C115 is a specialist high-performance synthetic fluid for grinding cast iron and steels alloys. State-of-the-art technologies provide excellent cooling and chip settling, very low foam profile, good tramp oil rejection and machine cleanliness while leaving a protective film on the machine tool.

TRIM® C115 has enjoyed particular success when used for water jet deburring. No foam has been seen even when operating at 200 bar pressure.

**Full information on request:**  
**info@masterchemical.co.uk**  
**+44(0) 1449 726800**

### Features and benefits

- TRIM® C115** Compatible with a very wide range of materials including cast iron, steels, plastics and composites; provides excellent corrosion inhibition on most common ferrous alloys
- TRIM® C115** Extremely low carry off for very low total operation costs
- TRIM® C115** Has very low foam and mist
- TRIM® C115** Very low odour level
- TRIM® C115** Keeps your machines clean while leaving a soft, fluid film that protects the bare metal parts of your machine tools
- TRIM® C115** Exceptional sump life and very good tramp oil rejection

### Physical properties (typical data)

- Concentration range 5% - 10%
- pH 8.8 - 9.6 range



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## CASE STUDIES

### Machine knife manufacturer

**OBJECTIVE:** The customer was not happy with the number of different metalworking fluid products they were using from their current supplier and were seeking one product which would be suitable for all of their machines. They wanted this product to be lower in price and have better foam control.

**OPERATION:** Surface grinding-reciprocal on case hardened steel. Soft water (60 ppm)

**OUTCOME:** Once the initial charge odour had dispersed and customer resolved a swarf issue in the sumps, the machine shop converted to TRIM® C115 which is now running at 5 – 6 %. 90% of the machine operators said "this is the best fluid we have ever used". TRIM® C115 has replaced all other products at the facility and achieved the following benefits: No foam - Superior surface finish - Non slippy components - Long sump life - Settled swarf - Excellent tramp oil rejection - Clear reading on refractometer - Better price - Excellent rust inhibition - Less drag out

### Diesel pump manufacturer

**OBJECTIVE:** To achieve cost savings on the existing competitive product which was getting 8 – 10 weeks sump life.

**OPERATION:** Grinding alloy steel, with double disc grinders using AL 02 wheels.

**OUTCOME:** TRIM® C115 lasted over six months and was still running at the time of writing. Grinding wheel life is increased and in process dipping to prevent rusting has been eliminated. Customer reduced their coolant usage by 25% by changing to TRIM® C115.

### Piston ring manufacturer

**OBJECTIVE:** Cost savings.

**OPERATION:** Profile grinding cast iron.

**OUTCOME:** An immediate improvement in grinding performance was seen due to TRIM® C115's better reaction with the filter system thus resulting in cleaner fluid going into the grinding interface. The customer was pleased with the improved; clarity, machine surface cleanliness, reduced misting, and significantly less residue on the fixturing and gauging. These improvements along with the better price per litre than their previous supplier ensured the customer converted their machines to TRIM® C115.

#### Local distributor:



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