

PRODUCT DATA

Chem-Trend® SL-7842

Water Soluble Die Lubricant for High Temperature

Chem-Trend® SL-7842 is a new heavy-duty, white die lubricant. The special additive package makes it ideal for the release of difficult and complex pressure die castings for both aluminium and magnesium.

Chem-Trend® SL-7842 contains an excellent lubricant base, plus anti-weld chemicals and extreme-pressure additives to form a perfectly balanced emulsion. It provides superior release and enhances lubrication of ejector pins and sliding cores. Other additives provide positive protection against pitting and corrosion. The products excellent wetting and film building capabilities ensure a uniform coating throughout the die across a large temperature range. When used correctly Chem-Trend® SL-7842 will not cause build-up in the die cavity or on the parting line due to overspray.

Benefits

- Suitable for high temperature application
- Excellent soldering protection
- Very good metal flow
- Good cast finish
- Free of wax
- Low cavity build-up
- Excellent results on castings with thin and thick walled sections

Typical Properties

Appearance	Whitish fluid
Density (20 °C)	Approx. 1,0 g/cm ³
Viscosity (20 °C)	< 50 mPa s
pH (concentrate)	Approx. 8,2
Storage stability in unopened containers	12 months

Recommended Use / Application

For high pressure casting of medium and heavy duty aluminium and magnesium castings, where a good finish, soldering protection and high performance is required.

Chem-Trend® SL-7842 should be diluted with water before use. The dilution length varies with the complexity of parts, but a starting dilution of 1:80 is recommended. This dilution can always be extended further after the

natural burnished coating provided by this lubricant has been established. This normally takes place after about 2 hours. Dilutions up to 1:150 are often attainable.

It is recommended to flush the pipe system that contains release agent with water during longer breaks (e.g. weekend or vacation).

If the die casting parts has to be painted or plated, the adequacy of the cleaning system should be determined. In most cases the cast parts may be successfully cleaned in any good alkaline system or with abrasive shot blasting. For specific cleaning issues please contact your Chem-Trend sales representative.

Storage

Keep from freezing; however, cold material should be allowed slowly to warm (up) to room temperature and stirred well prior to use. In summer the drums should not be exposed to direct sun for a long period of time. The storage temperature should not exceed 50 °C.

Handling

We believe Chem-Trend® SL-7842 has a low degree of hazard when used as intended. For more information, request a copy of Chem-Trend's Material Safety Data Sheet.

Packaging

Chem-Trend® SL-7842 is available in 1.000 kg, 200 kg and 50 kg container sizes.

Further Information

Request information on our complete range of materials for this industry from your Chem-Trend sales representative.

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products. Chem-Trend warrants only that its products will meet its sales specifications. This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use. Users are requested to check that they are in possession of the latest version of this document and Chem-Trend is at their disposal to supply any additional information.

Edition: 11.02.2013