



## HERA™ DIE LUBRICANTS

Chem-Trend's HERA™ — **H**igh **E**fficiency **R**elease **A**gent — die lubricant helps manufacturers improve overall operating efficiency through multiple forms of waste reduction and reduced product usage. HERA™ is an advanced ready-to-use water-based product flexible enough for use with high ductility alloys and complex part designs. The performance characteristics of its chemistry make HERA™ ideal for both high and low temperature operations.

HERA™ is one of Chem-Trend's many innovative solutions for the die cast industry and comes with Chem-Trend's long history of leadership, excellence, innovation and unmatched personal service.

### HERA™ Applications

HERA™ improves the cost model of any business by reducing scrap, downtime and energy use. The versatile product helps manufacturers attain sustainability goals with its water-based formulation and can be used in a variety of applications.

For example, HERA™ is well suited for use in the automotive industry in manufacturing structural castings as well as in the production of consumer durable goods such as household appliances.







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### HERA™ Solutions

HERA™ improves die cast operations in many ways:

- Increases productivity through cycle time reductions.
- Minimizes or eliminates plant effluent.
- Eliminates potential negative influences of dilution water.
- Eliminates issues with biological growth activity.
- Reduces energy consumption.
- Extends tool life.

### HERA™ Formulation

HERA™ was specifically developed as a ready-to-use advanced technology water-based die lubricant. It is perfect for use in today's complex applications.

- Compatible with standard or robotic application equipment.
- Versatile enough to use with complex part designs and high ductility alloys.
- Features excellent wetting and spreading properties.
- Adheres at low and high temperatures.
- Evaporates quickly and results in no effluent.
- Eliminates the need for costly biocide treatment.
- Shrinks overall carbon footprint by reducing CO<sub>2</sub> emissions.

### HERA™ History

HERA™ was developed as part of a project sponsored by the German Federal Ministry of Education and Research to promote energy and resource efficiency in aluminum die casting. Chem-Trend was one of several industry-leading companies to participate. The goal of the project was to increase overall energy efficiency by 15 percent, while at the same time reducing CO<sub>2</sub> emissions and shrinking a manufacturer's carbon footprint.

