

# TECHNICAL DATA SHEET

## DIE SLICK® 4515 DIE CASTING

DIE SLICK® 4515 Synthetic lubricant which contains a blend of reactive polymeric lubricants.

### Applications

The formulation incorporates Smart Polymer technology and high molecular weight alkane cross-linking agent. Smart Polymer technology is a thermodynamically reactive polymer blend which forms a tough barrier on hot areas of the die while lightly coating cooler less demanding areas. This unique property translates to reduced solder, enhanced release and wetting characteristics while producing bright and clean castings.

### Recommendation for use

ALLOY	DILUTION RATIO*
Aluminium	80:1
Zinc	80:1
Magnesium	80:1

\* The dilution ratios are recommendations based on Quaker Houghton Houghton's experience in the field. Each Die Casting facility is unique and each operator should evaluate the recommended starting ratio based on his / her experience.

### Benefits

- Forms a tough thermodynamically activated die film that resists soldering on hot die areas while not building on cooler die areas
- Castings are extremely bright and clean
- Does not cause paint or coating problems
- Minimal smoke and no staining

### Health, Safety and Handling

Please consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control - we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions. This product has a shelf life of 12 months, and it should be stored in a tightly sealed container in temperatures between 5°C (41°F) and 35° (95°F). Do not freeze.

### Properties

PROPERTY	TYPICAL VALUE	UNIT
Appearance / Colour	White Emulsion	[-]
Viscosity	NA	mm <sup>2</sup> /s @ 40°C
pH	8.5 - 9.5	[-]
Density	984	kg/m <sup>3</sup>
Flash point (COC)	NA	°C / °F

All reasonable care has been taken to ensure this publication is accurate upon issue. Such information may be affected by changes subsequent to issue. This Technical Data Sheet is to be used solely for this product. Prior to any use, consult the Safety Data Sheet (SDS) for information on hazard risks and product use parameters. All liability and all warranties express or implied are hereby excluded as to product performance results, the accuracy of these data including any warranty of merchantability or fitness for any purpose. [017225]

