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# DIE CASTING PRODUCT LINE

PRODUCT	CATEGORY	DESCRIPTION
<b>Die Release Agents</b>		
DIE SLICK® 17 Series	Diluted on application, Water Based	Versatile lubricants for general die casting applications. Exceptional wetting and flow characteristics
DIE SLICK® 45 Series	Diluted on application, Water Based	Heavy duty lubricant for demanding die casting operations. Superior performance with increased lubricity
DIE SLICK® AD Series	Diluted on application, Water Based	High performance wax-free lubricants for use with optimized spray processes. Premium solder resistance and release properties, whilst reducing die build up
DIE SLICK® AF Series	Diluted on application, Water Based	High performance siloxane-free release agents where demanding post casting processes preclude the use of siloxane products
DIE SLICK® SX Series	Diluted on application, Water Based	A range of lubricants with formulations optimized for the demands of casting structural parts
DIE SLICK® SQ Series	Diluted on application, Water Based	Products tailored for specifically for squeeze casting applications, providing excellent thermal characteristics and reduce die build up
DIE SLICK® AQ Series	Minimum Quantity Lubricants, Water Based	To meet environmental concerns the AQ range of products offers customers Smart Polymer Technology in a form that eliminates the need for wastewater treatment.
DIE SLICK® AH Series	Minimum Quantity Lubricants, Oil Based	Water free oil-based lubrication solutions that bring significant advantages to the customer in die cast performance
LUBROLENE®	Minimum Quantity Lubricants, Oil Based	Premium range of water free products using patented electrostatic technology to optimize and maximize lubrication film formation on all areas of simple or complex dies. Water free nature all but eliminates heat checking and extends die life significantly. Can be supplied with or without siloxane.
DIE SLICK® ZN Series	Zinc Casting Applications	Lubricants formulated to meet the specific needs for zinc die casting applications
<b>Plunger Lubricants</b>		
PLUNGER SLICK® V Series	Water-Free Lubricants	High performance water-free plunger lubricants with a wide range of viscosities available to meet demanding customer applications. Includes latest generation of sustainable products with improved lubrication and fire safety performance over mineral oil products
PLUNGER SLICK® W Series	Water Based Lubricants	Water-based lubricant using standard and invert emulsion technology to offer an optimized balance of lubricity and fire safety
PLUNGER SLICK® P Series	Solid Bead Lubricants	Bead lubricants offer improved cavity cleanliness, reduced porosity and ease of application
<b>Equipment for Die Casting Lubricants - QH FLUIDCAST™</b>		
QH FLUIDCAST™ RM100	Die Lubricant Application	Fully functional lubricant ratio monitor
QH FLUIDCAST™ SQ	Die Lubricant Application	Basic applicator for squeeze casting lubricants
QH FLUIDCAST™ MINI	Die Lubricant Application	Basic lubricant/water mixing system to achieve required dilution ratios for water-based lubricants
QH FLUIDCAST™ MONO	Die Lubricant Application	Advanced mobile lubricant/water mixing system with PLC control of mixing and lubricant delivery with HMI interface
QH FLUIDCAST™ DUAL	Die Lubricant Application	Advanced mobile lubricant/water mixing system with dual outputs that can be used for water based or lubricants. With PLC control of mixing and lubricant delivery with HMI interface
QH FLUIDCAST™ MAX	Die Lubricant Application	Centralized lubricant/water mixing system with PLC control to delivery lubricant to a large number of die casting lines
QH FLUIDCAST™ MQL	Die Lubricant Application	Full oil based lubricant application system offering PLC control of accurate lubricant delivery through a Quaker Houghton designed and supplied spray head.
QH FLUIDCAST™ E-STATIC	Die Lubricant Application	Full electrostatic lubricant application system offering PLC control and lubricant delivery through a Quaker Houghton designed and supplied spray head.
QH FLUIDCAST™ PLA	Plunger Lubricant Application	Low cost liquid lubricant dispensing unit
QH FLUIDCAST™ PLA 100	Plunger Lubricant Application	Fully functional die lubricant applicator with PLC control and HMI interface
QH FLUIDCAST™ BD	Plunger Lubricant Application	Low cost plunger lubricant bead dispensing unit

# DIE CASTING PRODUCT LINE

PRODUCT	CATEGORY	DESCRIPTION
<b>Fire-Resistant Hydraulic Fluids</b>		
QUINTOLUBRIC® 888	HFDu Synthetic Water Free Hydraulic Fluids	High performance anhydrous hydraulic fluids with excellent shear stability, best in class oxidation stability and reduced environmental impact. Products have low human and ecological toxicity, are >80% biodegradable and offer superior cleanliness. Products are energy saving due to their high viscosity index
COSMOLUBRIC® B-230	HFDu Synthetic Water Free Hydraulic Fluids	Is the latest development in Quaker Houghton's complete line of fire resistant hydraulic fluids for industry. COSMOLUBRIC® B-230 is a vegetable oil derived fire resistant hydraulic fluid formulated with additives to enhance corrosion protection, metal passivation, and oxidative inhibition. COSMOLUBRIC® B-230 is Factory Mutual approved as a less hazardous fluid.
HOUGHTO-SAFE™ 419-R	Water Glycol Hydraulic Fluids	Is a water glycol type fire resistant hydraulic fluid designed to meet the exacting requirements of modern industrial hydraulic systems. The fluid provides maximum safety in terms of fire resistance together with the optimum combination of performance characteristics and economy to the user. HOUGHTO-SAFE™ 419-R is Factory Mutual approved as a less hazardous fluid.
HOUGHTOSAFE™ 620	Water Glycol Hydraulic Fluids	Superior liquid and vapor phase corrosion protection, high viscosity index, excellent shear stability, excellent chemical thermal and hydrolytic stability
<b>Ancillary Products</b>		
TRIM SLICK™	Trim Press Lubricants	Trim press lubricants to improve trim life. Provides excellent boundary lubricant with minimal residue.
HEAT SLICK™	Heat Transfer Fluids	Non-toxic, non-corrosive, and low-odor heat transfer fluids for die casting temperature control.
PROWAY™	Way Oils	Machine lubricant designed for use in the lubrication of machine tool slides and ways.
QUENCH SLICK™	Quenching Additive	Synthetic quench tank additives for excellent heat dissipation. Non-foaming, prevents water spots, and extends tank life.
LADLE SLICK™	Ladle Coatings	Adhesion prevention pastes. Protects ladles and other tools from molten alloy.
QUAKERTEK™	Grease	A range of high performance greases which provide excellent lubrication and corrosion resistance. The LX series is formulated with high temperature resistance and shock loading protection, whilst the Axial range is formulated specifically to meet the needs of robotics.
<b>Metalworking Fluids</b>		
QUAKERCUT® / CUTMAX™	Metalworking Fluids	Neat cutting oils to provide a wide range of performance capabilities to meet metalworking industrial requirements in machining operations.
QUAKERCOOL® / HOCUT®	Metalworking Fluids	Expansive range of water soluble metal removal fluids containing soluble cutting oils, semi-synthetics and true solution synthetics. Provides a wide range of performance capabilities to meet industrial requirements in machining operations. Used in multiple industrial applications such as drilling, milling, tapping and reaming.
QUAKERCLEAN® / QH EXOMAX™	Metalworking Fluids	A wide range of high performance cleaning products for pre or post machining operations, with excellent foaming and biostability characteristics
<b>Porosity Sealing Solutions</b>		
ULTRASEAL REXEAL 100	Porosity Sealing Chemicals	Market leading high performance recycling impregnation sealant, offering best in class sealing performance. Offers recycling rates up to 95% and high levels of thermal and chemical resistance. Approved to US MIL-I-17563C, and carrying all major automotive OEM approvals
ULTRASEAL MX2	Porosity Sealing Chemicals	First generation recycling impregnation sealant, approved to US-I-176563C offering excellent all round performance
ULTRASEAL PC504/66	Porosity Sealing Chemicals	Non-recycling impregnation sealant offering excellent sealing, thermal and chemical resistance performance. Approved to US MIL-I-17563C
IMP IM3000	Porosity Sealing Chemicals	Non-recycling impregnation sealant offering excellent sealing, thermal and chemical resistance performance. Approved to US MIL-I-17563C
ULTRASEAL FL400 SYSTEM	Porosity Sealing Equipment	Front loading impregnation system that offers fast cycle times and high sealing rates in an operator friendly, small foot print system. Can be readily automated to improve operation efficiency and reduce overall operation costs
ULTRASEAL TL IMPREGNATION SYSTEM	Porosity Sealing Equipment	Cost effective Top load systems available in a variety of sizes, that balance investment costs and capacity
ULTRASEAL SRS SYSTEM	Porosity Sealing Equipment	Upgrade package for conventional impregnation systems to enable lower operation costs through deployment of environmentally friendly sealant solutions