



## Introducing New Smart Polymer™ Technology for the Die Casting Industry

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CONSHOHOCKEN, Pa., Sept. 22, 2015 /PRNewswire/ -- Uneven die protection caused by temperature variation on the die surface has been a constant challenge in the die casting industry. Temperature variation is caused by the variability in die size, design, complexity, flow of alloy through the die, and heat profile of each system. Traditional die lubricants, unable to adapt to the disparity in die temperatures, can be good at protecting hot areas of the die, but can produce residue build-up in cooler, less demanding areas, causing:

- Complications with solder on the casting
- Lost production time
- Extra die maintenance

To solve these challenges, Quaker Chemical Corporation (NYSE: KWR, "Quaker") Subsidiary – G.W. Smith & Sons developed **Smart Polymer™ Technology, a heat activated additive**. DIE SLICK® die lubricants with Smart Polymer™ Technology are able to form an evenly distributed, tough, protective die coating when exposed to hot areas of the die, but do not accumulate residue in cooler areas. This unique property translates to:

- **Reduced solder on castings**
- **Increased productivity**
- **Enhanced release and wetting characteristics**
- **Bright and clean castings**

Quaker will be exhibiting at the 2015 NADCA International Die Casting Congress & Exposition in **Booth 636** with their Die Casting product line, including die release agents with Smart Polymer™ Technology, plunger lubricants, ladle coatings, trim lubricants and QUINTOLUBRIC® fire-resistant hydraulic fluids. In addition, G.W. Smith & Sons Technical Director Dr. Matthew Lococo will present a technical talk, "**Coping with Temperature Variation on the Surface of Dies - Smart Polymer™ Chemistry**," October 6 at 2:30pm. The show will be held from October 5 to 7 at the Indianapolis, IN Convention Center. Visit <http://www.quakerchem.com/NADCA2015> for more information and the full Die Casting product line offerings.

For more industry related information, please visit: <http://www.quakerchem.com/product/die-casting-lubricants/>

For more information on Quaker Chemical and its full product line offerings, please visit [quakerchem.com](http://www.quakerchem.com).

### **About Quaker Chemical Corporation:**

Quaker Chemical Corporation is a leading global provider of process fluids, chemical specialties, and technical expertise to a wide range of industries, including steel, aluminum, automotive, mining, aerospace, tube and pipe, cans, and others. For nearly 100 years, Quaker has helped customers around the world achieve production efficiency, improve product quality, and lower costs through a combination of innovative technology, process knowledge, and customized services. Headquartered in Conshohocken, Pennsylvania, USA, Quaker serves businesses worldwide with a network of dedicated and experienced professionals whose mission is to make a difference. Visit [www.quakerchem.com](http://www.quakerchem.com) to learn more.

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