

# The global leader in process fluid solutions for the **steel industry.**



Steel companies face challenges today as never before. Heightened competition. The threat of disruption. Cost and regulatory pressures. The need to adapt to ever-changing technology. At this critical point in time, we are the long-term partner for steel companies seeking to anticipate – and overcome – these challenges. Our highest commitment is helping our steel customers run even more efficiently, even more effectively. Whatever comes next.

## Applied Intelligence: The Quaker Houghton Difference

Our dedicated steel specialists, working closely with our R&D chemists, partner with your team to develop customized solutions based on extensive knowledge of your unique operating environment and business goals. We provide on-site expertise that maximizes quality, performance and safety.

With Quaker Houghton products and people at work in your mill, you can:

- Increase productivity, throughput and utilization
- Reduce fluid usage
- Lower energy costs
- Reduce waste treatment and environmental impact
- Lower maintenance labor
- Minimize rework and rejects
- Maximize safety

## We Never Stop Improving. So You Can Continue to Succeed

Quaker Houghton is a partner in progress to the world's most successful steel companies. From rolling mill applications to finishing applications to more sustainable production, steel companies are constantly evolving in order to continue to grow and deliver even greater value to their customers. With R&D labs on three continents, Quaker Houghton continually refines our products, and creates new solutions, so that our steel customers can stay ahead in a changing world.



## Solutions That Optimize Performance

Quaker Houghton solutions are the steel industry standard, proven reliable in the most demanding environments.

Our complete range of solutions includes:

- Casting Lubricants
- Cleaners
- Cold Rolling Oils
- Corrosion Preventives
- Greases
- Hot Rolling Oils
- Fire-Resistant Hydraulic Fluids
- Industrial Maintenance Lubricants
- Pickle Oils
- Surface Treatments
- Temper Fluids
- Tin Plating Fluids

## Partners in Success

Every day, at our customer facilities on six continents, our industrial process fluids help steel customers adapt and grow.

**DECREASED AVERAGE ROLLING FORCES:** With a Quaker Houghton rolling oil, cold mill operations were optimized resulting in a 2.5% decrease in rolling forces and lower fluid and energy consumption.

**75% LESS GREASE CONSUMED:** In a finishing mill, the introduction of a Quaker Houghton calcium sulfonate grease decreased bearing failure rate and reduced grease consumption.

**38% LOWER TIN PLATING FLUIDS CONSUMPTION:** A steel tin plated coil producer achieved a significant reduction in sludge levels with no white edge defects by using Quaker Houghton MSA tin plating products.

**AVOIDANCE OF FIRES:** A long products manufacturer implemented a Quaker Houghton fire-resistant hydraulic fluid in their electric arc furnace which reduced fires and their severity as compared to mineral oil.

**We offer a range of services to help the world's most forward-looking steel companies run even more efficiently and effectively.**



QH FLUIDCARE™  
Managed Services



QH Technical  
Services



QH Engineering  
Services



QH Equipment  
Solutions

