

# PERFORMANCE SHEET

## TUBE & PIPE - QUAKERCOOL® 700 SERIES

### BACKGROUND

In the Tube & Pipe industry, the current approach for coolants is to use multiple products for multiple operations and substrates. Rather than having multiple, non-dedicated products, the ability to use one product or technology across the various processes and substrates that tackles the specific challenges for tube and pipe is a highly desirable option for manufacturers.

### QUAKERCOOL® 700 SERIES

The **QUAKERCOOL® 700 Series** for Tube & Pipe applications is an **innovative, modularly designed, synthetic, mineral oil-free metalworking fluids platform** that addresses the demand for a single product technology to be utilized for multiple operations and substrates.

With the understanding that the coolant demands range from lubrication, fines handling, corrosion inhibition, bio-control, tramp oil rejection, coating compatibility, and detergency through the manufacturing processes, the product development for the QUAKERCOOL® 700 series resulted in a higher lubricity and better quality fluid and evolved into a modular coolant platform design.

Designed with the “front-to-back” compatibility in mind, the product series integrates well with upstream chemistries and downstream protective coatings. The high performance coolant series portfolio includes:

PRODUCT	USE APPLICATION
QUAKERCOOL® 710 TP	<ul style="list-style-type: none"> <li>» ERW Tube forming for ferrous and galvanized substrates</li> <li>» Straightening</li> </ul>
QUAKERCOOL® SUPER HYDRO 720	<ul style="list-style-type: none"> <li>» Hydrotesting</li> </ul>
QUAKERCOOL® 730 TP	<ul style="list-style-type: none"> <li>» Threading for standard pipe threads</li> <li>» ERW Tube forming for ferrous and galvanized substrates</li> <li>» Sawing and cutting</li> </ul>
QUAKERCOOL® 750 TP	<ul style="list-style-type: none"> <li>» Threading for standard/premium pipe threads</li> <li>» Sawing and cutting</li> </ul>
QUAKERCOOL® 770 TP	<ul style="list-style-type: none"> <li>» Threading for severe thread designs and difficult to machine exotic alloys</li> <li>» Tube forming for ferrous, galvanized, stainless steel substrates</li> <li>» Sawing and cutting</li> </ul>

Depending on the process needs, each product demonstrates its **versatility** to be used for one or all the targeted applications.

### PERFORMANCE PROPERTIES

- » Excellent short term corrosion protection and bioresistance, even at low concentrations on ferrous and non-ferrous surfaces
- » Compatibility with downstream protective coating systems (UV, water based and solvent based) yielding improved cosmetics and corrosion protection
- » Excellent operator acceptance with its low odor compared to many other coolants as a result of its lower volatility amine package
- » Improved worker environment with no noxious smell from smoking or misting due to its exceptional cooling properties
- » Process improvements such as excellent fines settling and very low to no foam
- » QUAKERCOOL® 730 TP and QUAKERCOOL® 750 TP provides superior tool and insert life even at low concentrations resulting in decreased cost and downtime

### KEY FEATURES

- » **Advanced lubrication technology based on a microemulsion of proprietary synthetic esters**
- » **Working solutions range from transparent to translucent** depending on makeup water quality
- » **Rinses clean, leaving an excellent nontacky residue**
- » **Effectively resist microbiological growth**
- » **Does not contain chlorinated compounds, formaldehyde release agents, boron, MEA, or secondary amines**

