

# CASE STUDY



## PIPE THREADING

### QUAKERCOOL® 750 TP

#### CHALLENGES

- » A major OCTG pipe producer desired to lower their operating costs while at the same time improving their threading quality in order to maintain their competitive position in the industry
- » Higher strength API pipe materials and more complicated threading designs were placing a great deal of pressure on water based metalworking fluids to improve thread quality and cutting insert wear

#### THE SOLUTION

- » To improve the pipe manufacturer's operations, Quaker introduced the QUAKERCOOL® 750 TP coolant and worked closely with the customer to meet their specific needs
- » The target was to gain efficiencies especially on the tooling costs which are often the most expensive part of the threading operation

Trial results after incorporating QUAKERCOOL® 750 TP into the threading process:

- » Increased tool insert life up to 35%
- » Decreased downtime
- » Significant reduction in cost per joint saving the customer hundreds of thousands of dollars

For many manufacturers, annual thread tooling costs can be ten times or more than the annual costs of the coolant. QUAKERCOOL® 750 TP provides superior tool life, even at low concentrations so the customer was able to achieve up to 35% improvement in tool life which more than offset the entire annual purchase of the coolant.

#### THE PRODUCT

QUAKERCOOL® 750 TP is a high performance, synthetic microemulsion which includes advanced lubrication technology based on proprietary synthetic esters. It was developed for Tube & Pipe applications and designed to be compatible with upstream and downstream processes. Since it effectively resists microbiological growth and does not contain any mineral oil, chlorinated compounds, formaldehyde release agents, boron, MEA, nor secondary amines, the product is highly worker friendly. It rinses clean leaving a non-tacky residue that provides excellent short term corrosion protection on ferrous surfaces. QUAKERCOOL® 750 TP benefits include:

- » Compatibility with downstream coating systems (UV, water based and solvent based)
- » Excellent operator acceptance with its low odor compared to many other coolants due to 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

#### THE EXPERTISE

Quaker is a worldwide developer, producer and marketer of custom formulated Tube & Pipe process chemicals and coatings. From first coil to final cut, Quaker is capable of providing process chemicals for all operations in ERW and Seamless mills, and delivers the in-depth process expertise to help maximize your productivity.

Quaker's product line includes hydraulic lubricants, high-temperature greases, cleaners, forming & sizing coolants, drawing & forming compounds, sawing lubricants, hydrotesting compounds, corrosion preventives, and a complete line of high-value coatings (including solvent, water-based and UV coatings).

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