



CONSULTANT LUBRICANTS, INC.

"The Solution is Science®"

University of Missouri Research Park
9 Research Park Drive
St. Charles, MO 63304-5685

Consultant Lubricants, Inc. has been developing custom lubricant formulations and manufacturing advanced metalworking fluids for over forty years.

0204-WQC Quench Oil



Water-Based

Top 4 Quench Oil Challenges... and the Solution!

- 1) Catches Fire Periodically** - 0204-WQC water based concentrate is mixed with water to provide a non-flammable quench bath. Maintain concentration using Refractometer and test often to keep water/chemical mixture in range.
- 2) Too Costly To Drain & Refill** - 0204-WQC is diluted with water onsite for economical use. Quench Oil is used in its neat form, while the 0204-WQC is diluted with water onsite from 5% to 50% concentration. This significantly reduces quench oil maintenance costs and allows dump and recharge of the tank volume more often as needed.
- 3) Residue & Mess** - 0204-WQC is utilized in a water soluble bath. After removing part from bath, 50% to 95 % of the residue (water portion) evaporates resulting in very low residue left behind.
- 4) Current System Has Only One Quench "Speed"** - 0204-WQC Quenching polymer provides adjustable quench speeds. At 5% concentration, quench speed is fast, at 50% concentration is slow. Utilized a Refractometer tankside to check fluid concentration.

THE ADVENTURES OF GEORGE & RALPH



Quenching oil slows the cooling process to realign the crystalline lattice of the substrate. 0204-WQC is a liquid polymer compound designed to mix completely and easily with water onsite at a 5% -10% concentration. A Refractometer can be used to monitor and manage the concentration tankside. The 0204-WQC is completely soluble in water. As part enters the quenching liquid bath, the 0204-WQC becomes insoluble at high temperature (cloud point) and uniformly

envelopes the surface of the part for even cooling. The part is cooled more or less quickly depending on the concentration. By adjusting 0204-WQC variables, a single quenchant may be used in a wide variety of heat treating processes and with a wide range of metal alloys.

price per gallon			
\$26.50	\$25.50	\$23.50	\$23.50
1 GAL	5 GAL	55 GAL	275 GAL

