



Dura Quench 460

Dura Quench 460 quenching lubricant is an emulsifiable oil designed to be used in annealer quench systems at 0.5% - 1.5%. It is designed to be used on copper and tin-coated copper wire.

It has a biostable synthetic emulsifier with biostable and oxidation stable performance ingredients. These ingredients were chosen because of their superior detergency and overall performance to provide clean annealed wire. A high performance, multi-metal, corrosion inhibitor protects the wire from oxidizing and darkening. This corrosion inhibitor will also protect aluminum components of the annealer. Non-silicone defoamers provide foam control.

FEATURES:

The lubricity and wetting characteristics of the Dura Quench 460 reduces dry copper fines on annealer surfaces. This product provides the wire surface quality and cleanliness required by Category wire.

TYPICAL PRODUCT SPECIFICATIONS:

Viscosity @ 1000 °F., S.U.S.	450-490 seconds
Specific Gravity @ 600 °C.	.934
Flash Point, C.O.C.	305 R.
ASTM Color	Clear amber liquid
Weight/gallon	7.79
pH @ 1% concentration	9.1
Emulsion stability: 400 ppm hard water @ 1% dilution for 24 hours	No separation

SOLUTION CONTROL:

Dilutions of Dura Quench 460 can be determined using an optical refractometer such as American Optical No. 10440.

Refractometer Reading (BRIX): Each percent concentration of product reads direct on the Brix scale. A 1% dilution would read 1 on the scale. This method is used for rapid in-plant control of solution strength.

Dissolved solids content will gradually increase through water evaporation and make-up additions. This will gradually reduce the refractometer concentration factor. The readings should be compared to a recent Babcock test to determine a new factor for the refractive index.

PRODUCT SAFETY:

For complete safety and health information, consult the current Safety Data Sheet (SDS).