

## SUPRADRAW 311

Semi-synthetic Copper Wire Drawing Fluid

### DESCRIPTION

**SUPRADRAW 311** is a concentrate dedicated to copper wire drawing applications from intermediate to superfine wires. **SUPRADRAW 311** has excellent detergency and lubricating properties.

### APPLICATIONS

**SUPRADRAW 311** was formulated to deliver performance from intermediate to fine copper wire drawing operations at very high speeds.

**SUPRADRAW 311** was developed to answer to the stringent constraints of multiwire machines. It reduces significantly the wear on dies.

**SUPRADRAW 311** technology enables a very good resistance of destabilisation by metallic ions and oxidation.

### ADVANTAGES

- Lower the risks of wire breakages.
- Wear reduction on dies
- Very good bio-stability
- Low foaming
- Excellent surface finish
- Good filtration
- Anti-corrosion protection

### TECHNICAL INFORMATION

TYPICAL CHARACTERISTICS	UNITS	STANDARDS	SUPRADRAW 311
Colour of the concentrate	-	Visual	Light Brown
Specific Gravity at 20°C	-	ISO 12.185	0.958
Appearance of the emulsion	-	Visual	Milky
pH at 5%	-	NFT 60 193	8.9
Refractometric Index	-	M15	1.2

These characteristics are given only for information and can be updated over-time.

### RECOMMENDED DILUTION OF USE

- Intermediate copper wires: 6-10%
- Fine to superfine copper wires: 2-6%

### HEALTH & SAFETY

- Free of organo-chlorinated additives and formaldehyde releasers
- Boron free
- Good dermatological behaviour
- Storage in a frost-free and dry place