FDX 30 CU

Copper wire drawing water miscible lubricant

Description
FDX 30 CU is specially formulated water miscible fluid specially designed for universal drawing of copper rods, intermediate and fine wires. The combination of synthetic additives gives an excellent surface finishing. Special copper anti-corrosion inhibitors protect good protection against corrosion.

Applications
FDX 30 CU is the perfect solution for optimum performance in copper drawing as it will bring the user improved lifetime of dies and equipment thanks to its excellent lubricating capacity. Furthermore FDX 30 CU emulsions provide a very bright wire surface finish and do not give annealing residues and its high detergency will keep the drawing lines clean and free of copper fines deposit.

Benefits
- Improved die life
- Improved surface quality
- Low maintenance
- Increased emulsion life
- Biological resistance
- Reduced operating costs

Typical performance data

	30 CU
Appearance	Oily
Emulsion	Milky Stable
Density @ 20 °C, gr/ml	0,92
pH emulsion @ 5%	8,7-9
Stability	Good

Use
FDX 30 CU should ideally be mixed with water or hardness between 0 and 400 ppm. The chlorine content should be not higher than 0.1 gr/liter

Depending on the process the recommended concentrations are:

Application	Emulsion strength
Rod from 8-15 mm	8-10%
Intermediate wire from 4 to 0.6 mm	5-8%
Fine wire from 1.2 to 0.2 mm	3-5%
Capillary wire	1%
Annealing	1%

Add the product to water never the opposite in order to get a stable emulsion. Emulsion control should be done through refractometer readings. There is no refractometer index. The reading is direct. Before loading the tank with a FDX 30 CU made emulsion, it is worth to proceed to a deep cleaning process to eliminate the copper particles present in the bath

All performance data on this Technical Data Sheet are indicative only and can vary during production
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