



Lyden Oil Company

ProGuard

Product Information

ProGuard Soluble HD 210

ProGuard Soluble HD 210 is a heavy duty water extendable sulfur-chlorinated metalworking coolant formulated to offer outstanding performance in difficult machining and grinding operations involving hard-to-work metals such as stainless steel, tool steels, and high nickel alloys.

ProGuard Soluble HD 210 may be used on all metals except magnesium, copper and some bronze alloys, which may be stained. It will perform as well as straight oil in most applications. It is suitable for use in all types of machining processes including turning, milling, tapping, reaming, broaching, hobbing, and sawing. It also works well in the various grinding processes, including center-less, cylindrical, surface, internal, belt and disc.

Advantages

Can Replace Straight Oils in Most Operations
Excellent Finish in Machining and Grinding Operations
Better Cooling than Straight Oils

Increases Tool Life
Excellent Corrosion Inhibition
More Economical than Straight Oils

Concentration Ratio	3%	4%	5%	6%	7%	8%	9%	10%
Brix Reading	33:1	25:1	20:1	17:1	14:1	12:1	11:1	10:1
	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Recommended Starting Dilutions	Center-less, ID, OD, Surface Grinding Milling, Drilling , Turning Tapping, Reaming, Sawing					33:1 (3%) 20:1 (5%) 10:1 (10%)		

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Product Code Number

17870

Appearance - concentrate

Dark brown viscous liquid

Appearance - dilution

Tan milky liquid

Residual Film

Soft, Fluid

Flash Point, ASTM D-92

None

pH @ 20:1 (5 %)

9.5 ± 0.3

Specific Gravity @ 60°F

0.96 ± 0.01

Lbs./Gallon

8.1 ± 0.1

Total Sulfur, wt %

2

Total Chlorine, wt %

6

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