

PRO-CHEM-CO, INC. TECHNICAL DATA

PRO-CUT 410 HEAVY-DUTY SEMISYNTHETIC COOLANT

DESCRIPTION:

PRO-CUT 410 COOLANT has been formulated to **machine** and **grind** both ferrous and non-ferrous metals. PRO-CUT 410 combines the lubricity of a soluble oil with the cleanliness of a synthetic coolant in "**one**" product. PRO-CUT 410 forms a "microemulsion" in water whose small particle size optimizes machinability and sumplife.

BENEFITS:

- Good toolife
- Outstanding corrosion control.
- Excellent part finishes especially on aluminum alloys.
- Bioresistant to bacteria, molds, and yeast.
- Good tramp oil rejection.
- Excellent cleanliness keeps machines & parts clean.
- Versatile one "all purpose" coolant.
- Stable performs well in hard or soft waters.

OPERATIONS:

- CNC Machining
- Boring/Reaming
- Sawing/Cut-off
- Turning Centers

- Tube & Pipe Rollforming
- Surface & Finish Grinding
- Milling/Drilling/Profiling
- Tapping

- Central Systems
- FMS
- Light-duty Stamping
- Thread Rolling

DIRECTIONS FOR USE:

PRO-CUT 410 forms a "pearlescent" microemulsion when added to water, which is stable at all proportions. The sump should be cleaned with PRO-CHEM-CO machine cleaner and rinsed <u>before</u> adding coolant. The proper mixing ratio depends on your operation, metal(s) coolant system and application. The concentration chart below offers a good starting point.

Recommended Starting Dilutions					
OPERATIONS	CARBON STEELS & CAST IRONS	TOOL STEELS	ALUMINUM ALLOYS	HIGH ALLOYS & STAINLESS STEELS	
Grinding	3% - 5% (1:33 - 1:20)	4% - 5% (1:25 - 1:20)	3% - 4% (1:33 - 1:25)	4% - 5% (1:25 - 1:20)	
CNC Machining	5% - 6% (1:20 - 1:17)	5% - 7% (1:20 - 1:14)	5% - 6% (1:20 - 1:17)	5% - 10% (1:20 - 1:14)	
Milling/Drilling	5% - 6%	5% - 7%	4% - 7%	5% - 8%	
Turning Centers Sawing	(1:20 - 1:17)	(1:20 - 1:14)	(1:25 - 1:14)	(1:20 - 1:14)	
Tapping/Reaming Boring/Broaching Screw Machine	6% - 8% (1:17 - 1:12)	7% - 10% (1:14 - 1:10)	5% - 8% (1:20 - 1:12)	7% - 10% (1:14 - 1:10)	

Note:

We always recommend the use of a refractometer and good coolant management practices.

PROPERTIES:

Appearance	· Dark, Amber Liquid
Odor	Mild
Solubility	Emulsifiable at All Proportions
pH(5%)	9.1
Specific Gravity	1.038

PACKAGING:

PRO-CUT 410 is available in 5-gallon pails, 55-gallon drums, totes and bulk.