

# HE&M<sup>®</sup> ELIMINATOR

## 103 Soluble Oil

Eliminator 103 is a PREMIUM, all-purpose, heavy-duty Water Soluble metalworking fluid which contains a chemically treated, water soluble base and extreme pressure additives to reduce Friction, Heat, and Wear for exceptional tool life.

- Heavy-duty water soluble oil formula
- Provides excellent boundary film lubrication & extends tool life.
- Excellent corrosion protection
- Provides quality finishes on machined parts
- Superior resistance to microbial degradation
- Low foaming characteristics
- Will not irritate operator's hands
- Safe to use on all metals - non staining

Eliminator 103 is formulated for superior resistance to bacterial growth, and keeps metalworking fluid in service longer without foul odors or slime. Metalworking fluid stays fresh and will not irritate operator's hands.

Eliminator 103 contains extreme pressure and lubricity additives to cut friction, heat, and wear on tooling, providing machining results and tool protection even in hard water.

### Refractometer Schedule:

DILUTION RATIO WATER TO CHEMICAL	BRIX SCALE:			
	0 - 10	0 - 30	0-32	
1:1	Off Scale	Off Scale	Off Scale	
2:1	Off Scale	Off Scale	Off Scale	
3:1	Off Scale	25.0	25.5	
4:1	Off Scale	20.0	21.0	
5:1	Off Scale	17.0	18.0	
6:1	Off Scale	14.5	15.5	
7:1	Off Scale	12.5	13.5	
8:1	Off Scale	11.0	12.0	
9:1	Off Scale	10.0	11.0	
10:1	9.75	9.5	10.0	
11:1	9.0	8.5	9.0	
12:1	8.5	7.75	8.25	
13:1	8.0	7.25	8.0	
14:1	7.5	7.0	7.5	
15:1	7.0	6.5	7.0	
18:1	6.0	5.5	6.0	
20:1	5.0	5.0	5.25	

### Dilution Ratios:

Exotics, Stainless, Aluminum	3 - 7:1
Alloys & Tool Steel	10 - 15:1
Cast Iron, Brass & Copper	10 - 20:1
Low Carbon Structural & Tubing	10 - 20:1

NOTE: Always calibrate your refractometer to zero using your coolant water supply. Clean lens thoroughly, then apply water. Reading should be "0" (zero). If not, calibrate using the small set screw on the top or bottom of the refractometer.

### Available In:

P-103000	1 Gallon
P-103001	4 Gallon Case
P-103005	5 Gallon Pail
P-103055	55 Gallon Drum
P-103275	275 Gallon Tote

### Physical & Chemical Characteristics:

Appearance/Odor...	Amber Liquid/Mild Petroleum
Weight (lb/gal)	8.2
pH (concentrate)	9.6
pH (5% dilution)	9.3
Flash Point	310°F

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