



The Elco Corporation

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Elco 670 Extreme Pressure Additive

Features

Elco 670 is an EP additive that is an effective alternative to chlorinated paraffins in metalworking and cutting oils.

- Exceptional EP performance
- Non-corrosive
- Suitable for use in Group I and II base stocks and can be applied in soluble oils

Application

The typical treatment for Elco 670 is 20%-30% of the chlorinated paraffin depending on the severity of the application.

Characteristics

<u>Physical</u>	<u>Typical</u>
Flash Point	140°C min
Specific Gravity	0.95 (7.9lb/gal)
Viscosity @ 100°C	30 cSt
<u>Chemical</u>	
Phosphorus	2.6%

Recommended Blending, Handling and Storage Conditions

Elco 670 can be blended with mechanical or in-line blending equipment at temperatures not above 125°F (52°C) or below 60°F (16°C). The additive can be heated to 125°F (52°C) for unloading or transfer, but should not be stored for long periods at temperatures over 100°F (38°C).

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Typical Performance

MVI - 100 Base Oil	Treat Rate wt%	Falex EP	Four Ball Weld	LWI	Tapping Torque % Efficiency
Neat Additive					
Chlorinated Paraffin (45% chlorine)	15%	4,500+	250	46.6	119
Elco 670	3%	4,500+	250	55.4	107
Elco 670	5%	4,500+	250	45.8	111
with Active Sulfur					
Elco 670	2.50%	4,500+	250	55.6	131
Elco 213	2.50%				
with Inactive Sulfur					
Elco 670	2.50%	4,500+	315	49.5	114
Elco 230	2.50%				
with Ester					
Elco 670	2.50%	3,700	250	32.5	108
Ester	1.50%				
Blends					
Elco 670	2.50%	4,500+	400	64.2	121
Elco 213	2.50%				
Ester	1.50%				

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