



The Elco Corporation

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Elco 325 Paper Machine Oil Additive

Features

Elco 325 is a premium ashless, extreme pressure paper machine oil additive formulated to provide excellent dispersancy while maintaining water separation properties. Recommended for use in all circulating systems of paper machines.

- Enhanced oxidation properties yield extended product life
- Excellent demulsibility and superior wet filterability with fine porosity filters
- High operating temperature stability
- Gear oil EP characteristics
- High load carrying capacity

Application

Elco 325 has very good solubility in Group I and Group II base stocks. The recommended treat level of Elco 325 is 3.0% (2.5% vol.) in a suitable base stock.

Characteristics

<u>Physical</u>	<u>Typical</u>
Flash Point	90°C min
Specific Gravity	1.06 (8.84 lb/gal)
Viscosity @ 40°C	28 cSt
<u>Chemical</u>	
Sulfur	28%
Phosphorus	1.3%

Recommended Blending, Handling and Storage Conditions

Elco 325 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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Performance Characteristics

<u>Characteristics</u>	<u>Test Method</u>	<u>3.0% Elco 325 In Group I ISO 220 Base Stock</u>	<u>3.0% Elco 325 In Group II ISO 220 Base Stock</u>
Four Ball EP	D 2783		
Weld, kg		400	400
LWI, kg		62.8	55.5
Four Ball Wear, Scar, mm 40 kg, 1800 rpm, 1hr, 54°C	D 4172	0.39	0.40
Timken OK Load, lbs	D 2782	60	55
Steel Corrosion	D 665B	Pass	Pass
Copper Corrosion @ 121°C	D 130	1A	1A
Water Separability 40-40-0 (minutes)	D 1401	8	5
Oxidation, RBOT Minutes to 25 PSI Drop	D 2272	330	375
Thermal Stability	D 2070		
Precipitate		Light	Light
Steel Rod, Wt Gain, mg		3	3
Filterability	AFNOR		
3 Micron Filter, RT			
Filtration Index, Dry		1.6	1.08
FI, Wet 1% Water		1.4	1.39
Water Separability	D 2711		
Total Free Water, mL		39.6	39.8
Water in Oil, %		0.6	0.6
Emulsion		0.05	0.05
FZG (A/8.3/90)		12 pass	
Hydrolytic Stability	D 2619		
Cu wt. Loss, mg/area cm		0.03	0.01
TAN Water Layer, mg KOH		0.03	0.42
Beaker Oxidation Test 5hr @ 400°F	Elco	Pass	Pass

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