

## ***AW/EP Gear & Bearing Oil***

**SWEPCO 706 AW/EP Gear & Bearing Oil** is a premium quality, extended service industrial oil formulated to provide superior performance in a wide range of plant, mobile and marine applications. It provides outstanding service in all types of oil delivery configurations, including sump, mist, drip and circulating systems. It is particularly well suited for automatic lubricators and centralized lubrication systems which help plant maintenance personnel obtain the longest life and least lubricant consumption.

Selection of the very finest premium quality high VI paraffinic base stocks insures inherently high heat and oxidation resistance, a reduction in varnish, gum and carbon deposits, stable viscosity and superior film strength. The addition of high performance additive chemistry further improves important properties such as lubricity, load carrying capacity, resistance to shock loading, foaming, water separation, rust and corrosion resistance and service life.

The result is a multi-purpose gear and bearing oil that reduces friction, wear and operating temperatures in demanding conditions. At the same time it provides longer drain intervals, reduced waste oil, longer equipment and part life, less labor, more uptime and significant energy reduction in many situations.

SWEPCO 706 is suitable for use with all types of gearing including spur,



***SWEPCO 706 AW/EP Gear & Bearing Oil provides exceptional protection for gears and bearings in a wide range of industrial, mobile and marine applications, including automated lubrication systems.***

helical, worm and bevel as well as all types of bearings, including journal, high speed and anti-friction.

Because it is so versatile it can also provide additional savings through inventory reduction and maintenance simplification.

Here are just a few of the applications SWEPCO 706 is suited for:

- Gear Boxes & Reducers
- Journal & Anti-Friction Bearings
- Geared Couplings
- Blowers
- Pumps
- Air Line Oilers
- Conveyors
- Oil Cups
- Drive Chains
- Mixers & Agitators
- Presses & Extruders
- Dryers

Feature	Benefit
High VI Paraffinic Base Stock	<ul style="list-style-type: none"> <li>• Gives a more uniform viscosity over a wide temperature range</li> <li>• Improves resistance to high temperature oxidation</li> <li>• Superior thermal stability prevents "varnish" deposits on bearings and gearing</li> <li>• Better low temperature flow characteristics to help reduce start-up wear</li> </ul>
Oxidation Inhibitor	<ul style="list-style-type: none"> <li>• Reduces oil thickening and degradation</li> <li>• Helps prevent sludge, varnish and carbon deposits that result from oxidation</li> </ul>
Special Dispersants and Detergents	<ul style="list-style-type: none"> <li>• Keeps impurities harmlessly suspended in fluid and helps clean gum and other harmful deposits</li> </ul>
Rust and Corrosion Inhibitor	<ul style="list-style-type: none"> <li>• Bonds to metal surfaces to keep moisture and acids from penetrating and attacking</li> </ul>
Anti-Foam Additive	<ul style="list-style-type: none"> <li>• Can lower operating temperatures by dispersing foam and releasing trapped heat</li> <li>• Controls fluid level and minimizes loss through vent tube</li> </ul>
Oiliness Additive	<ul style="list-style-type: none"> <li>• Enables the oil to penetrate the surface for better lubrication</li> </ul>
Anti-Wear Inhibitor	<ul style="list-style-type: none"> <li>• Helps prevent metal-to-metal contact and insures longer gear &amp; bearing life</li> </ul>
Extreme Pressure Additive	<ul style="list-style-type: none"> <li>• Improves film strength of the oil giving it the ability to withstand extreme pressures</li> <li>• Reduces gear teeth wear</li> <li>• Increases load carrying capacity</li> <li>• Superior copper corrosion protection and yellow metal compatibility</li> </ul>
Pour Point Depressant Additive	<ul style="list-style-type: none"> <li>• Superior low temperature fluidity and reduced start-up wear</li> </ul>
Seal Compatibility	<ul style="list-style-type: none"> <li>• Prevents shrinkage of seals, elastomers, gaskets eliminating leakage and loss of fluid</li> <li>• Reduces potential maintenance expense of seal replacement</li> </ul>
Long Life	<ul style="list-style-type: none"> <li>• Lengthens drain cycles and reduces maintenance labor and waste oil disposal costs</li> </ul>
SWEPCO Lab Tec <sup>SM</sup> Fluid Analysis	<ul style="list-style-type: none"> <li>• Can maximize equipment and lubricant life and pinpoint impending problems</li> <li>• Reduces waste</li> </ul>
The Bottom Line	<ul style="list-style-type: none"> <li>• Extends the life of expensive equipment</li> <li>• Conserves energy through better friction reduction</li> <li>• Increases the service life of the oil</li> <li>• Reduces waste oil disposal</li> <li>• Reduces labor costs through decreased and simplified maintenance</li> <li>• Reduces costly scheduled and unscheduled downtime</li> <li>• Multi-purpose formulation reduces inventory and lubrication errors</li> </ul>

### Typical Physical Properties:

ISO Grade	32	46	68	100	220
AGMA Grade	n/a	n/a	2EP	3EP	5EP
SAE Grade	10	15	20	30	50
Density, @ 60°F					
Lbs./Gal.	7.3	7.32	7.35	7.4	7.46
(kg./L.)	(0.875)	(0.877)	(0.882)	(0.89)	(0.896)
Viscosity					
cSt @ 40°C	36.8	46	74	107	227
cSt @ 100°C	6	6.94	9	10.8	19.7
Viscosity Index	108	107	106	104	100
Pour Point, °F (°C)	-40 (-40)	-35 (-37)	-29 (-34)	-22 (-30)	-6 (-21)
Flash Point (COC), °F (°C)	395 (201)	435 (224)	435 (224)	450 (232)	500 (260)
Color	Amber	Amber	Amber	Amber	Amber

### Typical Chemical Properties:

Calcium, % weight	0.421
Zinc, % weight	0.106
Phosphorous, % weight	0.141
Sulfur, % weight	0.011

### Typical Performance Properties:

Seal Test -- Total Immersion (Buna N) (GM 6137-M, Section J-1)	
Hardness change, points	+2
Volume change %	-0.55
Seal Test -- Dip Cycle (Polyacrylate) (GM 6137-M, Section J-2)	
Hardness change, points	-2
Volume change %	+3.11
Seal Test -- Dip Cycle (Silicone) (GM 6137-M, Section J-3)	
Hardness change, points	-2
Volume change %	+3.51
FZG Scuffing (DIN 5134)	12+
Copper Strip Corrosion (ASTM D-130)	1A
Foaming Characteristics (ASTM 892)	30 wt 50 wt
Sequence I	0/0 0/0
Sequence II	0/0 0/0
Sequence III	0/0 0/0
Rust Prevention (ASTM 665), Procedure A	Pass Pass



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... the cutting edge performance SWEPCO  
Customers have come to expect since 1933



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