

Synthetic Universal AW Compressor Oil



**Exceptional Oil Life
Up to 8,000 Hours**

SWEPCO 702 Synthetic Universal AW Compressor Oil delivers exceptional wear control in the most demanding compressor applications. SWEPCO's **Syntheon™** synthetic base stock blends and proprietary **LUBIUM® II** oxidation and corrosion resistant chemistry lengthen lubricant life, insure compressor cleanliness, reduce wear, improve compressor efficiencies, reduce energy consumption and boost productivity. Formulated for rotary, reciprocal and centrifugal compressors. When you want the best, choose SWEPCO 702.



KEY BENEFITS

- Dependable, long service life in rotary, reciprocating & centrifugal compressor applications
- Reliable service life up to 8,000 hours or more
- Truly superior anti-wear performance
- **Syntheon™** synthetic base stock blends insure exceptional high temperature performance
- Advanced **LUBIUM® II** anti-oxidant chemistry prevents carbon, varnish & other performance-robbing deposits
- Unexcelled protection from rust & corrosion
- Energy efficient, improves compressor efficiency
- Rated for discharge temperatures as high as 200°C
- Fluid down to -40°F (-40°C) for cold weather applications
- UV sensitive for fast leak detection

Get more work out of your compressors with SWEPCO 702 . . .



Rotary Screw



Rotary Vane



Reciprocating



Centrifugal

Maximize your productivity with hard working SWEPCO 702 Synthetic Universal AW Compressor Oil.

PERFORMANCE

Feature	Benefit								
Syntheon™ Base Stock Blends	<ul style="list-style-type: none"> • Gives you a more uniform viscosity over a wide temperature range • Improves high temperature oxidation and thermal stability • Better low temperature flow characteristics help reduce start-up wear • Extends service life 								
LUBIUM® II Anti-Oxidant	<ul style="list-style-type: none"> • Improves resistance to high temperature degradation • Helps prevent varnish and carbon deposits that result from oxidation 								
Anti-Wear Additive	<ul style="list-style-type: none"> • Protects surfaces from scuffing wear 								
Rust & Corrosion Inhibitor	<ul style="list-style-type: none"> • Builds a chemical bond with the surface to keep moisture and acids from penetrating and attacking the surfaces. Rust inhibitor protects metal surfaces and seals from moisture. Particularly effective during periods of shutdown, where cooling may cause condensation 								
Anti-Foam Additive	<ul style="list-style-type: none"> • Lowers oil operating temperatures up to 25 degrees F. or more by dispersing foam and releasing trapped heat 								
Pour Point Depressant Additive	<ul style="list-style-type: none"> • Gives oil better low temperature flow characteristics • Helps to reduce low temperature start-up wear 								
Energy Savings	<ul style="list-style-type: none"> • Provides thin friction reducing film on vital metal parts to reduce electrical consumption. Many customers have achieved amperage reductions as much as 13% • Documented electrical savings through SWEPCO's ESP program 								
Long Service Life	<ul style="list-style-type: none"> • Up to 8,000 hours and longer; reduces consumption; reduces waste oil disposal costs 								
LabTec™ Fluid Analysis Program	<ul style="list-style-type: none"> • Can maximize equipment life, life of the lubricant and pinpoint impending problems • Reduces waste 								
Bottom Line	<table border="0"> <tr> <td>Increased profits through...</td><td>• Reduced waste oil disposal</td></tr> <tr> <td>• Extended equipment life</td><td>• Reduced costly scheduled and unscheduled downtime</td></tr> <tr> <td>• Extended oil life</td><td></td></tr> <tr> <td>• Reduced electrical utility costs</td><td>• Reduced labor costs</td></tr> </table>	Increased profits through...	• Reduced waste oil disposal	• Extended equipment life	• Reduced costly scheduled and unscheduled downtime	• Extended oil life		• Reduced electrical utility costs	• Reduced labor costs
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Typical Physical Properties

ISO Viscosity Grade, ASTM 2422	32	46	68	100
SAE Grade	10	15	20	30
Density, @60°F, lb/gal, ASTM D1298	7.12	7.14	7.22	7.22
Specific Gravity @ 60 °F, ASTM 1298	0.85	0.86	0.87	0.87
Viscosity, ASTM D445				
cSt @ 40 °C	33	48	67	94
cSt @ 100 °C	5.67	7.26	10.90	13.12
Viscosity Index, ASTM D2270	111	110	153	139
Pour Point °F, ASTM D97, Max (°C)	-40 (-40)	-38 (-39)	-37 (-38)	-35 (-37)
Flash Point °F, ASTM D92, Min (°C)	400 (204)	417 (214)	420 (215)	422 (217)
Fire Point °F, ASTM D92, Min (°C)	475 (246)	500 (260)	510 (265)	515 (268)
Color	reddish	reddish	reddish	reddish

Typical Performance Properties

Copper Strip Corrosion, ASTM D130, Color	1a
Rust, ASTM D665 A & B	
Distilled Water	pass
Synthetic Sea Water	pass
Acid Number, ASTM D974	0.13
Foam, ASTM D892, Seq I/II/III	0-0/0-0/0-0
Demulsibility, ASTM D1401	
oil/water/cuff (minutes)	40/40/0 (10)
Oxidation, RPVOT minutes @150°C, ASTM D2272	1538
Oxidation, hrs to 2.0 TAN, ASTM D943	8,000+
Four Ball Wear, ASTM D4172	
1800 rpm, 1hr, 400N, scar diameter, mm	0.45
FZG Gear, DIN 51354 part 2, Damage Load Stage ...	>12
Conradson Carbon Residue, ASTM D189	
DIN 51352 part 1, Carbon residue after aging %	1.2
% evaporation Loss	2.3
DIN 51352 part 2, Carbon residue after aging %	2.5
% evaporation Loss	4.1
DIN 51356, DIN 51551, Residue after 80 vol% distillation	
Conradson carbon residue %	<0.1
Viscosity @ 40C before distillation	42.5
Viscosity @ 40C after distillation	74
Ratio of viscosity (5 max)	1.74

Meets or Exceeds the Performance Requirements of These Specifications:

DIN 51506 (VBL, VCL, VDL)
ISO/DP 6521 (DAA, DAB, DAH, DAG)
USDA/NSF H2 & CFIA n1 (in closed systems)

Compatibility

Gases-Ammonia, Nitrogen, Hydrogen, Helium, Carbon Monoxide, Carbon Dioxide (dry), Ethylene, Methane, Propane, Butane, Propylene, Butylenes, Natural Gas, Butadiene, Furnace crack gas, Hydrogen Sulfide (dry), Synthetic Gas, Sulfur Dioxide. NOT recommended for breathing air or refrigeration gases.

Paints-Epoxy, Oil Resistant Alkyd, Acrylic Enamel

Seals & Plastics-Acetal (Delrin), ABS, Phenolic, Polyamide-imide, Polyamide (Nylon), Polyester, Polyetherimide (Nylon), Polyimide, Polyphenylene oxide, Polystyrene, Polysulfone, PTFE (Teflon), Terephthalate Elastomers:, Fluoroelastomer (Viton), Nitrile (Buna N), Polyacrylate, TFE/P, Poly Urethane. NOT recommended for polycarbonate plastic that is not metal covered, PVC plastic and butyl, ethylene-propylene or SBR rubber.

Changeovers: Although compatible with mineral oils, PAOs and some other synthetic oils, a thorough drain and cleaning is recommended before switching over to SWEPCO 702. This will help reduce initial contamination and insure optimum performance. NOT compatible with polyalkylene glycol or silicone oils.



A Product of SPX Technology™.

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



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