

# SL-R717AC

## Ammonia Refrigeration Compressor Lubricant

### Comparison of Ammonia Compressor Fluids

From lower volatility to increased fluid life, SL-R717AC beats the performance specifications of most competitive formulations.

PROPERTIES	SLFI SL-R717AC	ISEL 2033	Frick #9	Vilter-717	FES #1	Frick #3	MyCold AB-68	Chevron Ammonia Fluid	Stellar Ammonia Fluid	Texaco Capella 68	Shell Clavus 68	Petro Canada Reflo 68A	Mobil Gargoyle Arctic SHC NH 68	Notes
<b>Basestock Type</b>	OEM Quality Synthetic Base Fluids													PAO + AB
<b>Viscosity (cSt) @ 40°C</b>	68.4	68.4	62.9	77.0	69.0	71.0	56.0	64.6	64.6	64.2	63.9	61.8	64.0	SL-R717AC is an advanced version of the ammonia compressor fluids used by the OEMs
<b>Viscosity (cSt) @ 100°C</b>	9.7	9.7	8.5	9.45	9.1	8.3	5.9	8.5	8.5	7.2	6.77	8.9	8.5	SL-R717AC has a very high viscosity index (VI). High VI lubricants offer excellent protection at high temperatures and better fluidity at low temperatures
<b>Viscosity Index (VI)</b>	123	123	107	100	107	90	1	102	102	57	33	119	111	
<b>Viscosity @ -22°F</b>	26,000	26,000	29,431	35,642	33,834	69,977	181,358	30,321	30,321	166,000	152,550	19,507	24,281	SL-R717AC synthetic base stocks and proprietary additive system offers superior fluidity at ultra low temperatures
<b>Pour Point °F (°C)</b>	-46 (-43)	-46 (-43)	-39 (38)	-39 (38)	-38.2 (39)	-35 (-31)	-35 (-31)	-38 (-36)	-38 (-36)	-40 (-40)	-37 (-35)	-54 (-65)	-54 (-65)	
<b>Flash Point °F (°C)</b>	465 (240)	465 (240)	226 (440)	226 (440)	226 (440)	254 (426)	178 (354)	230 (446)	230 (446)	198 (388)	196 (385)	245 (473)	211 (412)	SL-R717AC has a very high flash point for added safety
<b>Volatility % Weight Loss 22hrs @ 100°C</b>	0.1	0.1	0.1	0.1	0.1	0.5	1.1	0.3	0.3	1.1	1.2	0.3	0.3	SL-R717AC low volatility and low solubility with ammonia translates into reduced oil carryover
<b>Solubility in Ammonia @ 50°C</b>	1.9	1.9	1.9	1.9	1.9	2.8	4.2	2.3	2.3	2.8	2.8	2.6	2.6	
<b>Viscosity % Increase (High Temp Oxidation) 1,500hrs</b>	2	2	2	2	2	100	100	28	28	100	100	2	2	SL-R717AC is a highly oxidatively stable formulation and thus has a very long fluid life

The SLFI products provided are approximate equivalents to competitive fluids. It should only be used as a general guide, and not serve as a sole resource for determining the correct lubricant for a particular application. Please consult an SLFI representative to ensure that the replacement fluid is the correct choice for the application



For more information about SL-R717AC or any other specialty lubricants, please contact a SLFI representative at 855-215-2740 or [www.slfi.net](http://www.slfi.net)



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Synthetic Lubricants & Filters, inc.  
 World Headquarters - 7401 University Dr.,  
 Shreveport, LA 71105  
 Phone: 855-215-2740, 855-215-2741, 318-779-1248 /  
 Emergency Phone: 800-637-5126  
 Fax: 318-779-1762 - [www.slfi.net](http://www.slfi.net)

# SL-R717AC

## Ammonia Refrigeration Compressor Lubricant

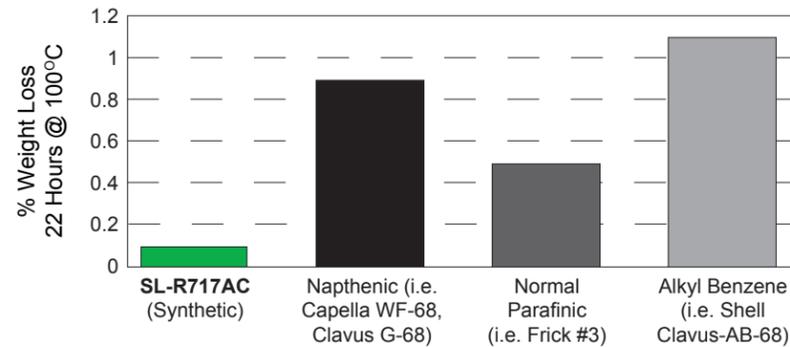
SLFi SL-R717AC is specifically formulated for use in ammonia refrigeration systems. This advanced formulation utilizes synthetic base fluids and next generation additives to provide unsurpassed levels of protection and performance. SL-R717AC is top off compatible with most ammonia compressor fluids, allowing you to avoid time-consuming flushing and change out procedures.

- Specifically formulated for use in Ammonia Refrigeration Systems
- Very low solubility with ammonia
- Reduced oil carry over rates, 50-80% less than competitive formulations
- Very long fluid life
- Top-off compatible with most ammonia compressor fluids
- Exceeds OEM specifications
- Very low volatility
- Ideal for both wet and dry ammonia applications
- Very high viscosity index
- Excellent corrosion and rust control

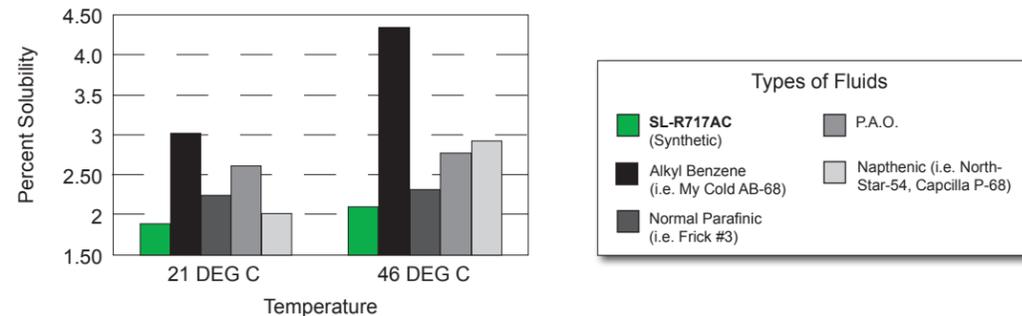
### Reduced Oil Carry Over

SL-R717AC's exceptionally low volatility, low solubility with ammonia and extremely low oil carryover rates make series SL-R717AC ideal for ammonia compressors.

#### Volatility



#### Solubility with Ammonia



Fluids with high volatility and high affinity with ammonia are more likely to carry

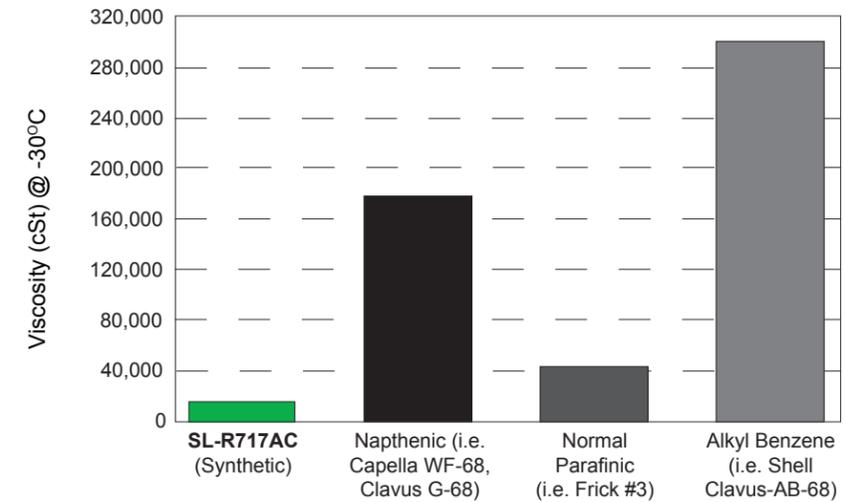
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### Better Cold Temperature Fluidity

SL-R717AC combines premium 2-stage hydrocracked base fluids with SLFi's proprietary blend of additives to provide superior fluidity at low temperatures. This helps to maintain thermal efficiency within the evaporator by reducing the amount of lubricant oil film deposits.

#### Cold Temperature Fluidity

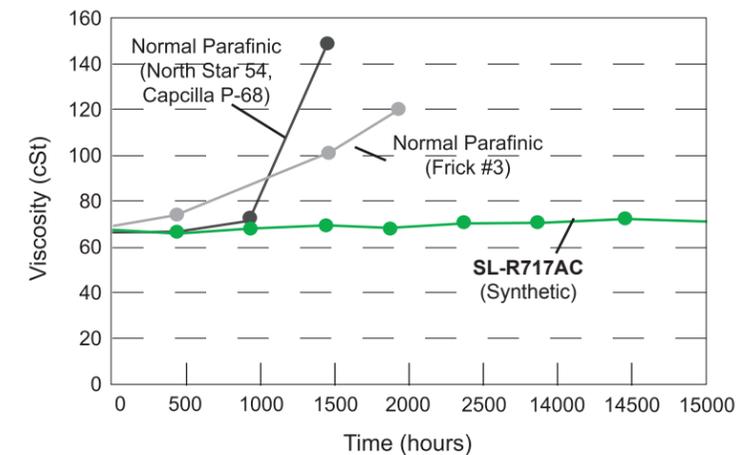


Fluids with a high viscosity at low temperatures are more likely to collect within the evaporator which can significantly degrade thermal efficiency.

### Longer Fluid Life

SL-R717AC is highly thermally stable and offers exceptional resistance against oxidation as well as carbon, varnish and sludge formation. All of which translates into an exceptionally long fluid life.

#### Fluid Life (Change in Viscosity Over Time)



Significant changes in the viscosity of a fluid over time is an indication of fluid degradation and poor thermal and oxidative stability.

### Safe to Use

SL-R717AC is a non-toxic/non-hazardous formulation and meets H-2 requirements for use in food processing facilities where there is no possibility of food contact. A variation of SL-R717AC is also available as a food grade formulation (H-1).