



## SUNOCO CHALLENGE D/E COMPRESSOR FLUIDS

### OVERVIEW

SUNOCO CHALLENGE D/E SERIES SYNTHETIC FLUIDS are fully synthetic compressor oils specially formulated with premium synthetic ester base fluids for use in a wide variety of air compressors. SUNOCO CHALLENGE D/E 32, 46, & 68 are designed from diester base oils for rotary screw compressors and will offer a typical service life of 8,000 hours under good operating conditions. SUNOCO CHALLENGE D/E 100 is designed from diester base oils for reciprocating compressors and is recommended for high pressure air compressors.

### FEATURES & BENEFITS

SUNOCO CHALLENGE D/E SERIES SYNTHETIC FLUIDS provide outstanding thermal and oxidative stability, will not varnish or form carbon deposits and are suitable for use across a wide range of operating temperatures. They contain built-in detergency and offer extended drain intervals to reduce oil disposal, and thus increase cost effectiveness.

### TYPICAL PROPERTIES

Product Code	9603	9613	9623	9633
ISO Viscosity Grade	32	46	68	100
Viscosity cSt @40 °C	36.3	45.4	70	99
Viscosity cSt @100 °C	5.9	6.5	7	10.2
Viscosity Index (D2270)	106	89	60	83
Flash Point, COC °F (D92)	526	496	531	500
Pour Point °F (D97)	-54	-40	-35	-27
Copper Corrosion	1a	1b	1a	1b
Foaming Sequences I, II, III	Nil	Nil	Nil	Nil
Demulsibility	Excellent	Excellent	Excellent	Excellent
Evaporation, %	1.0	1.0	1.0	.98
Carbon Residue, %	<0.02	<0.02	<0.02	<0.02
Dielectric Strength	-	-	34.33	-
Four Ball Wear, 40 KG., Scar Dia. mm	-	-	-	0.38
Specific Gravity	0.96	0.96	0.96	0.95

### APPLICATIONS

SUNOCO CHALLENGE D/E SERIES SYNTHETIC FLUIDS are designed for use in all types of rotary screw compressors, rotary vane compressors, centrifugal compressors, reciprocating compressors, high pressure air compressors, vacuum pumps, gear boxes, and chain lubrication.

SUNOCO CHALLENGE D/E 100 is recommended for reciprocating compressors and vacuum pumps using the following gases: air, ethylene, methane, propane, butadiene, natural gas, synthesis gas, carbon monoxide, carbon dioxide (dry), helium, hydrogen sulfide (dry), nitrogen, furnace (crack) gas, hydrogen, & sulfur hexafluoride.

CAUTION: May affect some paint finishes, plastics and seals  
USDA H-2 Authorized