



Product Bulletin

BRAD PENN[®] SYNTHETIC COMPRESSOR OILS

BRAD PENN[®] Synthetic Compressor Oils are manufactured from the highest quality PAO (polyalphaolefin) base stocks and advanced additive technology. They are recommended for rotary screw and centrifugal compressors and can be used in other applications such as reciprocating compressors. They offer many advantages over petroleum based lubricants as well as some synthetics, especially where compatibility is a concern. They have enhanced oxidative stability and can be recommended for extended service life in rotary screw air compressors. **BRAD PENN[®] Synthetic Compressor Oils** possess low pour points, high viscosity indices and excellent water demulsibility.

BRAD PENN[®] Synthetic Compressor Oils are recommended for use in the following applications:

- Centrifugal Compressors
- Rotary Screw Compressors
- Ball and roller element bearings
- Low Temperature Lubrication
- High Temperature Lubrication

BRAD PENN[®] Synthetic Compressor Oils are compatible with the following materials:

- Neoprene
- Viton
- Buna-N
- Buna-N24
- Buna-N19
- Epoxy Paint
- Compounded Urethane
- Nylon
- Teflon
- Plastisol
- PVC
- Acrylic Paint
- Lacquer
- Most commonly used software materials

BRAD PENN[®] Synthetic Compressor Oils are comparable to the following competitor products:

ISO 46	Anderol 3046 , Atlas Copco Roto Xtend Duty Fluid , Chevron Tegra Synthetic Compressor Oil 46, Citgo CompressorGard PAO 46, Comp-Air SSL 46 Plus, ConocoPhillips Syncon R & O 46, CPI 4601-46, ExxonMobil Rarus SHC 1025, Gardner Denver AEON 9000 SP, FS Curtis Toledo Lube Plus RS 8000, Kaeser Sigma S-460, Quincy QuinSyn Plus, Royal Purple, Synfilm 46, Shell Corena S4R 46, UltraChem Chemlube 228
ISO 68	Anderol 3068, Chevron Tegra Synthetic Compressor Oil 68, Citgo CompressorGard PAO 68, ConocoPhillips Syncon R & O 68, CPI 4601-68, ExxonMobil Rarus SHC 1026, Kaeser Sigma S-680, Royal Purple Synfilm 68, Shell Corena S4R 68, UltraChem Chemlube 268
ISO 100	Anderol 3486, Chevron Tegra Synthetic Compressor Oil 100, Citgo CompressorGard PAO 100, ConocoPhillips Syncon R & O 100, CPI 4601-100, Quincy Quinsyn Recip, Royal Purple Synfilm 100, UltraChem Chemlube 299



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BRAD PENN[®]

Synthetic Compressor Oils

Typical Properties

ISO Viscosity Grade	Test Method	46	68	100
Specific Gravity	ASTM D4052	0.8546	0.8610	0.8610
Density, lbs/gal	Calculated	7.125	7.178	7.170
Viscosity, cSt @ 40°C	ASTM D445	43.0	66.0	93.0
Viscosity, cSt @ 100°C	ASTM D445	7.20	9.80	12.5
Viscosity Index	ASTM D2270	130	132	130
RPVOT (min)	ASTM D2272	2500	2500	2500
FZG (Load Stage 8)	ASTM D5182	Pass	Pass	Pass
Pour Point, °F (°C)	ASTM D5950	-38 (-39)	-44 (-42)	-40 (-40)
Flash Point, °F (°C)	ASTM D92	515 (268)	520 (271)	535 (279)
Autoignition Temp., °F (°C)		745 (396)	745 (396)	760 (404)
Emulsion Tendency/Water Separation	ASTM D1401	40/40/0 10 Minutes	40/40/0 15 Minutes	41/39/0 10 Minutes
Product Code		7770	7771	7772

Be sure to review changeover procedures table below when changing from one product type to our PAO based **BRAD PENN[®] Synthetic Compressor Oils**.

Changeover Procedures

Diester	to	PAO (polyalphaolefin)	Complete drain and refill
Polyglycol	to	PAO	Complete drain and flush with Diester
Petroleum	to	PAO	Complete drain and refill
Partial synthetic	to	PAO	Complete drain and refill
Polyolester	to	PAO	Complete drain and refill