



# QuinSyn® Aftermarket Fluids



SPECIALLY FORMULATED TO IMPROVE  
ROTARY SCREW COMPRESSOR  
EFFICIENCY AND RELIABILITY

# QUINSYN® AFTERMARKET FLUIDS

## INCREASING EFFICIENCY WHILE REDUCING PRODUCTION COSTS

Everyone is looking for new ways to help improve the bottom-line. However, when it comes to fluids for your rotary screw compressor, you have to consider the complete picture.

While competitive fluids that meet published specifications might seem like a good bottom-line decision, cheaper blends do not always translate into bottom-line savings over time. This is why Quincy QuinSyn® Fluids are uniquely formulated to improve the efficiency and reliability of your

compressors.

Fluids directly impact the cost of ownership of your compressor. Through extensive tests, Quincy QuinSyn® Fluids have proven that they can reduce energy consumption, reduce MRO costs including labor and component replacement costs, reduce waste disposal cost and reduce lost productivity due to extended equipment downtime – all of which affect your bottom line.

### The Benefits of Quincy QuinSyn® Fluids

- Specifically developed in response to the demanding needs of Quincy customers in all kinds of production environments
- Designed to achieve the maximum performance of your Quincy rotary screw compressor
- Lab and field tested in thousands of machines with millions of hours of successful operation
- Compatible with all Quincy Compressor parts ranging from heat exchangers to compressors
- Quincy Compressor offers extended airend warranty programs after the original machine warranty expires. If you have an interest in extending the warranty of your Quincy compressor, contact your local Quincy distributor for details at [quincycompressor.com/locator.html](http://quincycompressor.com/locator.html)

## EVERY QUINSYN® FLUID IS FORMULATED FOR A VERY SPECIFIC APPLICATION AND ENVIRONMENT

### QuinSyn® Endura

QuinSyn® Endura is a custom blended polyol ester (POE) long life synthetic fluid blend. It is ideal for the harshest of rotary screw air compressor applications where the fluid is exposed to elevated temperatures for extended periods of time. Testing shows that QuinSyn® Endura has an expected service life of 10,000 hours or more even in the most demanding industrial environ-

ments. It does not leave varnish or sludge when it oxidizes like other conventional synthetic or mineral oil based fluids. QuinSyn® Endura's high quality base stock, coupled with state-of-the-art additive technology, results in performance that is unparalleled in the rotary compressor aftermarket industry.

- Extreme temperature environments
- High pressure applications >175 PSIG
- Extended service interval and remote installations



## QuinSyn® Flex

QuinSyn® Flex is a blended polyalphaolefin (PAO)/hydro-treated mineral oil/diester rotary screw air compressor fluid that provides improved lubrication at high and low temperatures, reduced volatility, and compatibility with mineral oils and equipment designed for use with mineral oils. Designed exclusively by Quincy, QuinSyn® Flex outperforms any comparable 8,000 hour lubricant. QuinSyn® Flex is formulated from synthetic base stocks along with corrosion and oxidation inhibitors, which all promote the longevity of the lubricant as well as the rotary screw air compressor. QuinSyn® Flex also readily separates from water and is compatible with the gravity type oil/water separators.

- General purpose environments
- Lowest cost alternative to OEM fluids

## QuinSyn® Edge

QuinSyn® Edge is the next generation custom-blended polyalphaolefin (PAO)/ester synthetic fluid. High temperature applications and harsh plant environments are the reason we designed QuinSyn® Edge. In addition to a longer productive life when compared to other synthetic fluids, QuinSyn® Edge protects against the formation of sludge and varnish in the compressor. QuinSyn® Edge features reduced volatility and compatibility with mineral fluid and equipment designed for use with mineral fluid. Developed with a life expectancy of 8,000 hours with proper maintenance and sampling, QuinSyn® Edge is an excellent choice for your most demanding compressed air applications.

- Harsh environments
- Lower cost alternative to OEM fluids

## QuinSyn®

QuinSyn® is a custom-blended synthetic hydrocarbon fluid with improved lubrication reduced volatility, and compatibility with mineral oils and equipment designed for use with mineral oils. It is readily disposable and is ideally suited for a majority of applications where it can last up to 8,000 hours or more.

## QuinSyn® Prime

QuinSyn® Prime is a custom-blended polyalkene glycol (PAG) rotary screw air compressor lubricant. The formulation consists of rust and oxidation inhibitors which make it ideal for hot and humid environments or in applications prone to varnish build up. QuinSyn® Prime offers superior demulsibility characteristics when compared to other PAG/ester fluids and will not leave behind carbon residue/varnish when it oxidizes as compared to hydrocarbon based products. QuinSyn® Prime is also classified as readily biodegradable according to ASTM Standard D-5864 (condensate disposal approval is required from the local wastewater treatment facility). This product is approved for use in Quincy Compressor extended airtend warranty programs outside of the original factory warranty.

- Hot and humid environments
- Low cost alternative and compatibility with OEM polyglycol fluids

## QuinSyn® FG46

QuinSyn® FG46 is a custom blended food-grade polyalphaolefin (PAO) synthetic hydrocarbon fluid which provides improved lubrication, reduced volatility, and compatibility with mineral oil based rotary screw compressor fluids. USDA authorizes QuinSyn® FG46 for use in federally inspected meat and poultry plants (H-1). It also complies with FDA 21 CFR 178.3570-Lubricants with Incidental Food Contact. QuinSyn® FG46 has an expected life of 4,000 hours with proper maintenance and sampling. This product is approved for use in Quincy Compressor extended airtend warranty programs outside of the original factory warranty.

- Food processing plants
- Low cost alternative and compatibility with OEM food grade fluids

# QUINSYN® AFTERMARKET FLUIDS



an EnPro Industries company

## QUINSYN® FLUIDS PERFORMANCE AND PROPERTIES

Quincy Brand	QuinSyn Flex	QuinSyn	QuinSyn Edge	QuinSyn Prime	QuinSyn Endura	QuinSyn FG46
Type	PAO/Diester	PAO	PAO/POE Blend	PAG	POE	PAO
Viscosity Index	Good	Good	Good	Good	Good	Good
Low-temperature Fluidity	Good	Good	Good	Good	Good	Good
Oxidation Resistance	Good	Very Good	Excellent	Good	Excellent	Very Good
Compatibility with Mineral Oils	Excellent	Excellent	Good	Fair	Fair	Excellent
Low Volatility	Good	Excellent	Excellent	Good	Excellent	Excellent
Hydrolytic Stability	Good	Excellent	Good	Very Good	Good	Excellent
Antirust Properties	Good	Excellent	Good	Excellent	Good	Excellent
Additive Solubility	Good	Good	Good	Good	Excellent	Good
Thermal Stability	Good	Good	Excellent	Good	Excellent	Good
Water Solubility	Nil	Nil	Nil	Excellent	Nil	Nil
Life Expectancy (Hours)	8,000	8,000	8,000	8,000	10,000	4,000

  

Property	ASTM Test	QuinSyn Flex	QuinSyn	QuinSyn Edge	QuinSyn Prime	QuinSyn Endura	QuinSyn FG46
ISO Grade	D-2422	46	46	46	46	46	46
Viscosity at 40° C	D-445	47.3	40.3	46.3	46.8	46.5	46.9
Viscosity at 100° C	D-445	7.7	7.3	7.5	8.5	6.9	7.9
Viscosity Index	D-2270	132	147	127	160	103	139
Specific Gravity at 60° F	D-1298	0.84	0.83	0.88	0.99	0.91	0.83
Density (lbs./gal.)	D-1298	7.2	6.94	7.39	8.30	7.60	6.91
Flash Point (°F)	D-92	500	515	540	480	500	475
Pour Point (°F)	D-97	-49	-65	-58	-60	-60	-76
Foam Test Sequence II	D-892	< 25 mL	< 25 mL	< 25 mL	< 25 mL	< 25 mL	< 25 mL

### Quincy's Fluid Sampling Program Offers:

- Easy-to-read reports that give detailed action items and instructions like when to sample again, what parameters are abnormal and possible steps that may help you alleviate any problems
- Results from the last three sampling dates and the subsequent data, making it easy to compare results from past samples
- Specific knowledge of the fluid's chemical make up for the best analysis possible
- State-of-the-art equipment to provide the most accurate report
- Reliable results delivered in a timely manner
- Accurate determination of fluid life expectancy



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