

IND-2003-2104E

# FAIRCOL SA100

## HIGH-PERFORMANCE SYNTHETIC OIL FOR RECIPROCATING AIR COMPRESSORS

**FAIRCOL SA100** is all entirely new type of synthetic oil for today's high-efficiency reciprocating air compressors. **FAIRCOL SA100** delivers the outstanding performance that you demand, because it is designed especially for improved safety and greater ease of use.

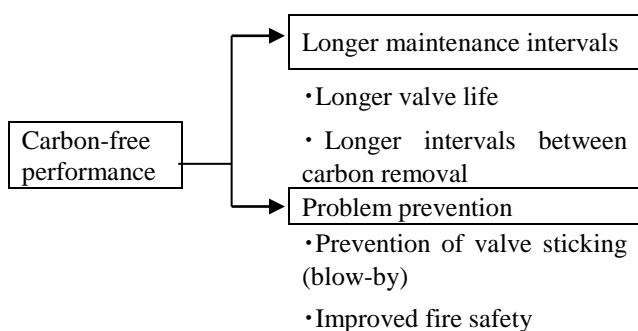
**FAIRCOL SA100's** carbonless performance saves energy, cuts costs and greatly reduces total maintenance expenses.

### ● A TRULY EASY MAINTENANCE OIL

The **Faircol A Series** of oils were introduced for reciprocating air compressors in 1968. In the years since, these oils have been very popular because of their strong resistance to carbon formation. Now, building on this long experience, **FAIRCOL SA100** has been introduced as a compressor oil that provides even better total performance.

To meet the needs for reduced maintenance, **FAIRCOL SA100** is made from a carefully selected synthetic base oil that provides outstanding thermal and oxidation stability. This entirely new type of compressor oil has been specially created to deliver carbon-free performance.

**FAIRCOL SA100** features more than just longer oxidation life, excellent foaming prevention, and superb antirust performance. This lubricant has also been specially designed with low combustibility and low odor characteristics that make it both easy to use and easy on compressors.



### ● APPLICATIONS

- Reciprocating-air compressors that require lower energy consumption.
- Reciprocating air compressors that require improved safety. Examples: compressors located on ships, heavily used factory compressors, etc.

### ● CONTAINERS

- 200-liter drums,
- 20-liter pail cans.

### ● TYPICAL TEST DATA FOR FAIRCOL SA100

Kinematic viscosity (40°C)	mm <sup>2</sup> /s	90.2
(100°C)	mm <sup>2</sup> /s	9.57
Viscosity index		79
Flash point (COC)	°C	272
Autogenous ignition point	°C	395
Total acid number	mgKOH/g	0.10
Pour point	°C	-40
Foaming (24°C)	ml	0
(93.5°C)	ml	0
(24°C after 93.5°C)	ml	0
Rust Prevention (pure water, 60°C, 24h)		Passed
Demulsibility (54°C)	min.	40-40-0(3)
Rotary bomb oxidation test(150°C) min.		3500
Falex sticking load	kN	Over 3.56

### ● SPECIAL FEATURES OF FAIRCOL SA100

#### 1. Nearly Carbon-Free

Since there's almost no carbon formation with **FAIRCOL SA100**, valves stay clean; this means longer valve life and maintenance intervals. You can decide for yourself how much longer your maintenance intervals should be in actual use.

a. Laboratory test (thin-film oven test)

A thin oil film was formed continuously in a cylinder-like environment for five hours under conditions of high-temperature oxidation (290°C). The weight of the carbon that formed was measured and compared.

Units: mg

<b>FAIRCOL SA100</b>	Commercial Synthetic Oil	Commercial Mineral Oil
1.5	9.9	8-30

b. Actual equipment test 1 (on-ship compressor manufactured by Teikoku Machine, 45 kW)

c. Actual equipment test 2 (steam-driven compressor)

**FAIRCOL SA100** had a maintenance interval of a full three times longer than that of the mineral oil.

2. Reduced Danger of Fire

**FAIRCOL SA100**'s flash point is 272°C and its ignition point is 400°C. Both points are 10 to 20°C higher than for mineral oil, so this new lubricant provides much better fire prevention safety with modern high-load, high-temperature, high-compression equipment. And since there is very little carbon formation, **FAIRCOL SA100** also prevents heat accumulation ignition that can occur with carbon deposited by conventional compressor oils.

3. No Oil Smell During Operation

Because of **FAIRCOL SA100**'s out-standing stability, it produces no decomposition byproducts that can cause bad smells. This means that the work environment stays free of unpleasant odors during operation.

4. Longer Compressor Life

**FAIRCOL SA100** delivers improved lubricity (e.g., Falex sticking load) with cylinder oiling. In addition, its excellent water separation performance means that it responds completely to the needs of auto drain mechanisms as well as helps to prevent water pollution.

5. Dependable Extra-Long Oil Life

A comparison with the oxidation life (RBOT) of conventional reciprocating compressor oils shows that **FAIRCOL SA100** lasts more than 20 times longer.

Rotary Bomb Oxidation Test		min. at 150°C
<b>FAIRCOL SA100</b>	Commercial Synthetic Oil	Commercial Mineral Oil
3,500	870	80-250

**FAIRCOL SA100** also offers great cost advantages when used as a long-drain crankcase oil.



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil, Additives
<b>Precautionary pictograms:</b>	Not applicable
<b>Signal word:</b>	Not applicable
<b>Hazard Statement:</b>	Not applicable
<b>Precautionary Statements:</b>	
<b>Prevention</b>	<ul style="list-style-type: none"><li>• Do not handle until all safety precautions have been read and understood.</li><li>• Wear protective gloves/protective clothing/eye protection/face protection.</li><li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li><li>• Wash hands thoroughly after handling.</li><li>• Do not eat, drink or smoke when using this product.</li></ul>
<b>Response</b>	<ul style="list-style-type: none"><li>• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li><li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li><li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li><li>• IF ON SKIN: Wash with plenty of soap and water.</li></ul>
<b>Storage</b>	<ul style="list-style-type: none"><li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li><li>• Containers that have been opened must be tightly sealed.</li></ul>
<b>Disposal</b>	<ul style="list-style-type: none"><li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li><li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li></ul>