

# FS Synthetic R&O Gear, Bearing, & Compressor Oil

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## Description

These high-quality, rust- and oxidation-inhibiting, synthetic oils are fortified with ashless anti-wear additives for excellent gear and bearing protection. They are designed for superior performance in a wide variety of applications. Application examples include hydraulics, circulating systems, pumps, compressors, and helical, spur, or worm gearboxes. Consult the equipment manufacturer for the correct viscosity and lubricant performance requirements.

## Features

- Excellent cold-flow properties
- Resists high temperatures
- Shear stable
- Anti-foam
- Does not contain heavy metals
- Rapidly separates from water
- Ashless, zinc-free, anti-wear formula
- Noncorrosive to yellow metals
- Replaces Mobil SHC 600 Series

## Meets or Exceeds:

### Hydraulic:

- Denison HF-0, HF-1, and HF-2 (ISO 22 through 100)
- Vickers M-2950-S and I-286-S (ISO 22 through 100)
- US Steel 127 and 136
- Lee-Norse 100-1
- Jeffrey No. 87
- B.F. Goodrich 0152
- Commercial Hydraulics

### Cincinnati Machine:

- ISO 32 (P-38 and P-68)
- ISO 46 (P-54 and P-70)
- ISO 68 (P-54 and P-69)

### Industrial Gear Reduction:

- AGMA 0S-7S
- AGMA 0-8
- AGMA 7C-8C

## Product Availability

For specific product availability and item numbers, see price pages.

## Typical Properties

Test / Description	Specification				
<b>Synthetic Circulating Oils</b>	<b>22</b>	<b>32</b>	<b>46</b>	<b>68</b>	<b>100</b>
Viscosity @ 100°C (cSt)	4.7	6.0	7.9	10.3	13.6
Viscosity @ 40°C (cSt)	22.0	32.0	46.0	68.0	100.0
Viscosity Index	136	136	143	138	136
Density (lb/gal)	6.93	6.99	7.01	7.07	7.12
Pour Point (°C)	-67	-54	-51	-48	-45
Pour Point (°F)	-89	-65	-60	-54	-49
Flash Point (°C)	237	264	257	274	264
Flash Point (°F)	459	507	495	525	507
Four Ball Wear Test (mm)	0.50	0.45	0.45	0.45	0.45
AGMA Number	NA	0S	1S	2S	3S
Rust Test	Pass	Pass	Pass	Pass	Pass
R&O Gear Oil Classification	NA	0	1	2	3

Test / Description	Specification				
<b>Synthetic Circulating Oils</b>	<b>150</b>	<b>220</b>	<b>320</b>	<b>460</b>	<b>680</b>
Viscosity @ 100°C (cSt)	18.9	25.0	31.7	41.5	54.5
Viscosity @ 40°C (cSt)	150.0	220.0	320.0	460.0	680.0
Viscosity Index	143	143	138	140	140
Density (lb/gal)	7.34	7.42	7.39	7.43	7.46
Pour Point (°C)	-42	-39	-36	-33	-33
Pour Point (°F)	-44	-38	-33	-27	-27
Flash Point (°C)	286	281	282	282	282
Flash Point (°F)	547	538	540	540	540
Four Ball Wear Test (mm)	0.35	0.35	0.35	0.35	0.33
AGMA Number	4S	5S	6S	7S	NA
Rust Test	Pass	Pass	Pass	Pass	Pass
R&O Gear Oil Classification	4	5	6	7	8