



R&O Hydraulic Oils

Starfire R&O hydraulic fluids are high performance turbine grade lubricants specially formulated from high viscosity index paraffinic base stocks and robust additive technology. This combination of base oils and additives provide for excellent performance against rust and oxidation to extend fluid life and reduce system maintenance.

Starfire R&O hydraulic fluids shed water readily and are highly resistant to emulsification. They are suitable for use in hydraulic systems, gear cases not requiring EP lubricants, friction clutches, heat transfer systems, steam turbines, air compressors and other industrial units.

Manufacturer Specifications:

- DIN 51524, Part 1
- Cincinnati Milacron: P-38, P-55, P-54, and P-57
- Hagglunds Denison HF-1
- Hagglunds Denison HF-0 Bench Tests
- General Electric GEK-32568
- Solar Turbines ES9-224
- MIL-H-17672D

<u>Property</u>	<u>10</u>	<u>22</u>	<u>32</u>	<u>46</u>	<u>68</u>	<u>100</u>	<u>115</u>	<u>150</u>	<u>220</u>	<u>320</u>	<u>460</u>
Gravity, °API	34.3	33.5	33.0	32.3	31.6	30.7	30.4	29.7	28.7	27.9	27.3
Viscosity, cSt											
@ 40°C	10.2	20.6	30.1	44.3	65.9	97	113	142	209	316	446
@ 100° C	2.7	4.1	5.2	6.6	8.6	11.2	12.4	14.5	18.8	24.8	31.0
Viscosity, SUS											
@ 100° F	59.5	100.4	150.5	206	306	463	525	695	968	1482	2066
@ 210° F	35.2	39.8	43.3	47.8	54.4	63.5	67.9	76.0	93.4	119.3	147.0
Flash Point, °F	300	385	410	430	455	490	495	505	530	531	580
Viscosity Index	100	100	100	100	100	100	100	100	100	100	100
Pour Point, °F	-20	-20	-20	-20	-20	-10	-10	-5	0	10	15
Oxidation Hours D-943)	<-----5000+hours-----> (ASTM)										