

I D E A L[®] F G O I L S

Date 02/08

- DESCRIPTION:** Ideal FG Oils are food grade lubricants formulated with a food grade white mineral oil base, and an additive system designed for lubrication of food processing equipment. They are available in a wide range of viscosity grades.
- QUALITIES:** Ideal FG Oils meet the requirements of US FDA regulation 21 CFR 178.3570 for lubricants with the possibility of incidental contact with food for human consumption, and are registered as H1 lubricants for incidental food contact by NSF, for use in food plants under the jurisdiction of the USDA. Ideal FG Oils are certified as Kosher (passover) with the Union of Orthodox Jewish Congregations of America[®]. Ideal FG Oil 32 conforms to the requirements of ANSI/NSF Standard 60, Drinking Water Treatment Chemicals – Health Effects. These lubricants are colorless, odorless, tasteless, non-staining lubricants that provide excellent wear, rust, and oxidation protection. Ideal FG Oils 100, 220, and 460 are fortified with high molecular weight polymer for improved high temperature performance.
- APPLICATIONS:** Ideal FG Oils are general purpose lubricants for machinery that processes, packages, or transports food for human consumption. These Oils are recommended for medium pressure hydraulic systems and circulating systems. Ideal FG 32, 46, and 68 Oils are recommended for medium pressure hydraulic systems in food processing, canning, bottling, and air line lubrication. Ideal FG 100, 220 and 460 Oils are light duty gear oils designed for use in food machinery worm gears, spur gears and valves.

SCHUMANN / STEIER, INC.

TYPICAL PROPERTIES:

IDEAL® FG OILS

	32	46	68	100	220	460
VIS Grade	22400	22410	22420	22430	22450	22460
Material Code	32.6 380 (193)	32.2 400 (204)	31.1 415 (213)	30.6 420 (216)	30.1 430 (221)	29.3 440 (227)
Gravity, ASTM D 4052, °API	15 (-9)	15 (-9)	15 (-9)	15 (-9)	20 (-7)	20 (-7)
Flash Point, ASTM D 92, °F (°C)	32	46	68	100	220	460
Pour Point, ASTM D 97, °F (°C)	5.3	6.5	8.3	10.7	18.8	29.6
Viscosity, ASTM D 445, cSt at 40°C	15	15	15	20	-	-
cSt at 100°C	-	-	-	-	20	30
Water Separation, ASTM D 1401, minutes	Pass	Pass	Pass	Pass	Pass	Pass
at 130°F						
at 180°F						
Turbine Oil Rust Test, ASTM D 665A						
Four Ball Wear Test, ASTM D 4172	0.32	0.32	0.32	0.32	0.34	0.34
Scar, mm @ 20 Kg	0.40	0.40	0.40	0.40	0.42	0.44
Scar, mm @ 40 Kg	15	15	15	15	-	-
Vickers Pump Wear, ASTM D 2882, mg	8000+	8000+	8000+	8000+	6000+	6000+
Oxidation Stability, ASTM D 943, hrs	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ	Ⓢ
Kosher	H1	H1	H1	H1	H1	H1
NSF, Registered	STD 60	-	-	-	-	-
NSF/ANSI Certified	✓	✓	✓	✓	✓	✓
FDA, 21CFR 178.3570						