



**CLARION® SYNTHETIC GEAR FLUIDS**

Date 1/09

**DESCRIPTION:** Clarion Synthetic Gear Fluids are premium products designed to provide optimum performance in gear boxes, bearings, blowers, reciprocating compressors, and hydraulic systems where a H1 product is needed.

- QUALITIES:** Clarion Synthetic Gear Fluids:
- NSF H1 registered (formerly USDA H1) for use in federally inspected food processing plants.
  - Have demonstrated the ability to lower power consumption resulting in additional energy savings.
  - Exceed FDA 21 CFR 178.3570 for incidental food contact.
  - Provide exceptional fluid life through oxidation control and the use of superior synthetic base stocks.
  - Provide outstanding EP and anti-wear performance.

**APPLICATIONS:** Clarion Synthetic Gear Fluids are designed for food process applications such as gear boxes, bearings, blowers, reciprocating compressors and hydraulic systems.

Clarion Synthetic Gear Fluids can be used in applications where low temperature pumpability is a must.

Clarion Synthetic Gear Fluids ISO 150 and 220 are designed for use in Can Seamers such as those made by Angelus.

**TYPICAL PROPERTIES:**

**CLARION® SYNTHETIC GEAR FLUIDS**

ISO Grade	150	220	320	460
Material Code	632510009	632511009	632512009	632513009
Specific Gravity	0.8459	0.8490	0.8520	0.8545
Density, lb/gal	7.04	7.07	7.09	7.11
Viscosity, ASTM D 445, cSt at 40°C	159	228	328	456
cSt at 100°C	20	26	34	44
Viscosity Index, ASTM D 2270	142	145	148	151
Pour Point, ASTM D 97, °F (°C)	-54 (-48)	-54 (-48)	-44 (-42)	-44 (-42)
Flash Point, ASTM D 92, °F (°C)	529 (276)	532 (278)	540 (282)	530 (276)
Rust Protection, A/B, ASTM D 665	Pass	Pass	Pass	Pass
4-Ball Weld, ASTM D 2596, kgf	160	160	160	160
Load Wear Index	50	50	50	50
4-Ball Wear, ASTM D 4172B, mm Scar at 40kg	0.43	0.35	0.35	0.36
FZG, Failure Stage	>12	>12	>12	>12
NSF Registered	H1	H1	H1	H1
FDA 21 CFR 178.3570	✓	✓	✓	✓