

**CLARION® FOOD MACHINERY
GEAR OILS**



Date 01/11

DESCRIPTION: Clarion Food Machinery Gear Oils are designed specifically for use in food machinery worm gears, spur gears and valves. They are formulated with a high-purity white mineral oil and additive system for food processing applications. They are available in three ISO viscosity grades. They do not contain any natural products derived from animals, nuts or genetically modified organisms (GMOs). It is suitable for use where vegetarian and nut-free food is prepared.

QUALITIES: Clarion Food Machinery Gear Oils meet the requirements of US Food and Drug Administration (US FDA) regulation 21 CFR 178.3570 for lubricants with the possibility of incidental contact with food for human consumption and are registered as NSF H1 lubricants (formerly USDA H1) for use in food processing plants under the jurisdiction of the US Department of Agriculture (USDA).

Clarion Food Machinery Gear Oils are certified as Kosher (passover) with the Union of Orthodox Jewish Congregations of America®.

These lubricants are colorless, odorless, tasteless, non-staining lubricants that provide excellent wear, rust and oxidation protection.

APPLICATIONS: Clarion Food Machinery Gear Oils are general purpose lubricants for machinery that processes, packages or transports food for human consumption. These oils are recommended for use in food machinery worm gears, spur gears and valves.

Clarion Food Machinery Gear Oil 150 is recommended for lubrication of rotary can seaming machines equipped with a total loss system, such as Angelus Sanitary Can Seaming Company.

TYPICAL PROPERTIES:

CLARION® FOOD MACHINERY GEAR OILS

ISO Grade	150	220	460
Material Code	633547009	633546009	633548009
Gravity, ASTM D 4052, °API	30.3	29.3	28.9
Density, lbs/gallon	7.28	7.33	7.35
Flash Point, COC, ASTM D 92, °C (°F)	238 (460)	240 (464)	242 (468)
Pour Point, ASTM D 97, °C (°F)	-7 (+19)	-7 (+19)	-7 (+19)
Viscosity, ASTM D 445, cSt at 40°C	148	220	460
cSt at 100°C	15.0	18.8	29.6
Viscosity Index, D 2270	105	105	105
Color	L0.5	L1.0	L1.0
Water Separation, ASTM D 1401 at 180°F	40-38-2 (10)	40-38-2 (10)	40-39-1 (15)
Rust Test, ASTM D 665A	Pass	Pass	Pass
Four-Ball Wear, ASTM D 4172,			
Scar, mm at 20 Kg	0.32	0.34	0.34
Scar, mm at 40 Kg	0.40	0.44	0.44
Oxidation Stability, ASTM D 943, hrs	6000+	6000+	6000+
Kosher	Ⓢ	Ⓢ	Ⓢ
NSF Registered	H1	H1	H1
FDA, 21CFR 178.3570, 178.3620	✓	✓	✓