

CITGO CLARION® FOOD GRADE WHITE
MINERAL OILS

Date 01/06

DESCRIPTION: CITGO Clarion Food Grade White Mineral Oils are of the highest purity. They are refined by ultra high pressure hydrotreatment and are stabilized with Vitamin E oxidation inhibitor. They are available in four viscosity grades.

QUALITIES: CITGO Clarion Food Grade White Mineral Oils meet the requirements set forth in the U.S. FDA regulations 21 CFR 172.878 for use in or on food for human consumption, and 21 CFR 178.3620 (a) for use as a component of nonfood articles intended for use in contact with food for human consumption, and are certified as Kosher[®] with the Union of Orthodox Jewish Congregations of America.

These oils meet the current standards of the National Formulary (NF) or US Pharmacopeia (USP), and are registered as 3H and H1 lubricants for direct and incidental food contact by NSF, for use in food plants under the jurisdiction of the USDA. CITGO Clarion Food Grade White Mineral Oil 200 conforms to the requirements of ANSI/NSF Standard 60, Drinking Water Treatment Chemicals.

APPLICATIONS: CITGO Clarion Food Grade White Mineral Oils can be used for coatings for fruits and vegetables, defoamers, shell egg spray, bakery pans and dough dividers, cutters, knives, meat packers benches, boards, trays and hooks, and a lubricant and rust preventative for food processing machinery.

They can be used in cosmetics & pharmaceuticals, suntan lotions, baby oils, bath oils, as a base for ointments, as a pelletizing aid, and as a drug processing agent.

They can be used in the fibers, plastics and resins area as a process aid, a diluent, a pigment dispersant, and textile fiber lubricant. In the food processing area, they can be used as a release agent on grills.

TYPICAL PROPERTIES:

**CITGO CLARION
FOOD GRADE WHITE MINERAL OILS**

NUMBER	70	90	200	350
Material Code	633507001	633509001	633512001	633514001
Gravity, ASTM D 4052, °API	32.5	33.7	32.8	31.0
Pounds Per Gallon	7.18	7.13	7.17	7.25
Flash Point, ASTM D 92, °F (°C)	360 (182)	375 (190)	410 (210)	450 (232)
Pour Point, ASTM D 97, °F (°C)	+10 (-12)	+15 (-9)	+15 (-9)	+15 (-9)
Viscosity, ASTM D 445, cSt at 40°C	13.9	16	40	70
ASTM D 2161, SUS at 100°F	73	85	205	355
SUS at 210°F	36	38	47	56
Color, Saybolt, ASTM D 156	+30	+30	+30	+30

NOTE: All oils above are colorless (Saybolt +30 Color), odorless and tasteless and surpass the requirements of FDA and U.S. Pharmacopeia standard for Neutrality, Sulfur Compounds, Solid Paraffins and Readily Carbonizable Substances.

Viscosity grades of 70 and 90 SUS at 100°F are under the jurisdiction of the NF and Viscosity grades of 200 to 350 SUS at 100°F are under the jurisdiction of the USP.