

FluidGuard™ EG50 & EG100

Industrial Coolant and Heat Transfer Fluid



Product Information

FluidGuard™ EG 100 is an inhibited ethylene glycol used as an industrial coolant and heat transfer fluid. FluidGuard™ EG 50 is a pre-blended 50% solution in de-ionized water. The inhibitor system is designed to protect brass, copper, solder, steel, cast iron, aluminum, and other natural metals commonly found in industrial cooling and heating systems. Use of FluidGuard™ EG provides for long fluid life, corrosion protection, and leak protection in piping, pumps, valves, fittings, and heating or cooling equipment. Coastal Chemical Co., LLC provides users of our FluidGuard™ products with complete analytical analyses and technical recommendations on fluid quality and applications.

FluidGuard™ EG is commonly used in an aqueous dilution from 20 to 60% by volume. These levels provide freeze protection between -9°C and -46°C (15°F and -50°F), respectively.

FluidGuard™ applications include heating and cooling systems, line heaters, chillers, refrigeration systems, snow melting systems and HVAC systems. FluidGuard™ EG is not suitable for use where contact with food or potable water is possible. These systems require FluidGuard™ PG USP grade products.

Typical Physical Properties

Form	Light Red/Pink Liquid
Specific Gravity @20°C, pure	1.13
50% water	1.03
Freeze Point, pure	-13°C (9°F)
50% water	-37°C (-35°F)
Boiling Point, pure	174°C (345°F)
50% water	107°C (225°F)
Flash Point COC	119°C (246°F)
pH (33-1/3 vol. % Soln.)	10.5
Reserve Alkalinity	11.0 (min)
Foaming Tendency (vol, ml)	40
Break Time (sec)	1.5
Viscosity, 25°C (77°F)	
Pure	13cp
50% water	3.3cp
Specific Heat, 50% water	0.843 Btu/lb- °F
@60°C (140°F)	

FluidGuard™ EG 100 is designed to be used in a diluted form, typically 50% or less with water. De-ionized water is recommended to minimize unacceptable hardness from minerals.



Coastal Chemical Co., L.L.C., a Brenntag Company

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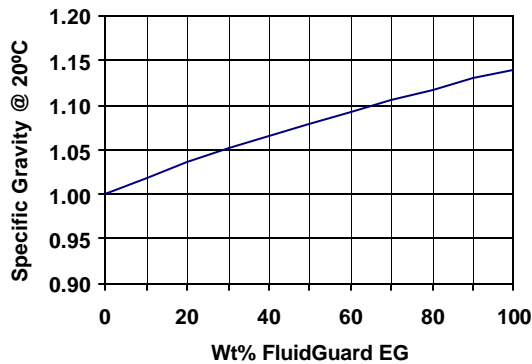
Safety & Handling Precautions

FluidGuard™ EG 50 and EG 100 are industrial chemicals and should be handled as such. Users should thoroughly review the Material Safety Data Sheets (MSDS) for their products prior to use.

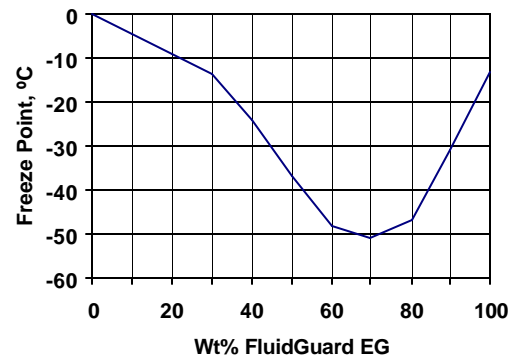
Physical Properties

FluidGuard™ EG properties versus concentration with water are illustrated below. Other physical property data is available from our brochure, FluidGuard™ EG Physical Properties.

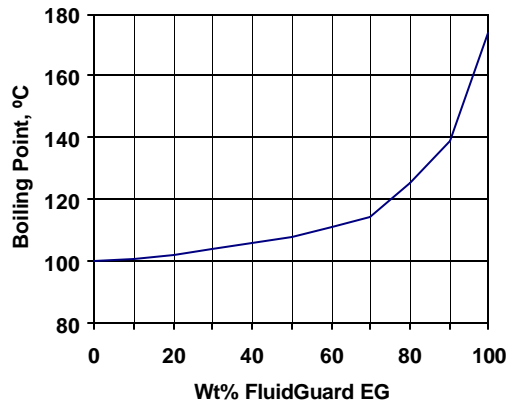
Specific Gravity



Freeze Point



Boiling Point



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