

GLYCHILL™ FG

Food Grade Industrial Coolant and Heat Transfer Fluid



PRODUCT OVERVIEW

PrixMax GLYCHILL™ FG is a multipurpose heat transfer fluid and industrial coolant based on USP/EP grade mono-propylene glycol and contains only food grade ingredients.

GLYCHILL™ FG offers exceptional corrosion protection for metals commonly found in industrial cooling and heating systems, and is acceptable for use as a heat transfer fluid where there is the possibility of incidental food contact.

PRODUCT BENEFITS

- All components are listed on the FDA “generally recognised as safe” list for chemicals used as direct/indirect food additives
- Specifically formulated for the food and beverage industries
- Can be used where food safety is important
- Reduces maintenance costs
- Extends pump and valve life
- Non-hazardous
- Protects heat transfer systems against freezing, bursting, boiling and corrosion

TECHNICAL CHARACTERISTICS

Property	Typical Results
Colour	Colourless
pH, 33 vol%	10.0
Reserve Alkalinity	10.0
Water (wt%)	2.0 max.
Specific Gravity, 20°C	1.05
Freeze Point (50 vol%)	-34°C
Boiling Point	188°C

Technical Characteristics are typical of those obtained with normal production tolerance. Variations in product typical results are to be expected during normal manufacture.

RECOMMENDED TEMPERATURE RANGE



The lower operating temperature should be defined by the desired freeze point protection and the relevant system's pumping ability. The higher operating temperature of the product should be limited to 150°C bulk fluid temperature and 175°C maximum skin/surface temperature.

INDUSTRIES

- Distilleries and breweries
- Wineries
- Dairy companies
- Pharmaceutical
- Food storage and processing
- Supermarkets
- Packaged food freezing
- Ice manufacturers
- Canneries and preservers

MAINTENANCE

Dilutions

GLYCHILL™ FG is available as a 100% concentrate. Dilution with high purity water should be performed to achieve the desired freeze point before the fluid is added to the system. Please see the Freeze Protection Table below to select the concentration for your application.

Freeze Protection Table

Use the following table to determine the product concentration to use in your application. The acceptable concentration ranges from 30% to 60% by volume.

Concentration (Volume %)	Freeze Protection (°C)
30	-8
35	-19
40	-22
45	-28
50	-34
55	-42
60	-51

General

- While all ingredients in GLYCHILL™ FG are food grade, the product should not be intentionally added to food.
- GLYCHILL™ FG is compatible with most other heat transfer fluids based on propylene glycol (for example, Dowfrost® and JEFFCOOL® P200). Exclusive use of GLYCHILL™ FG is, however, recommended for optimal corrosion protection.
- To prevent any contamination, we can provide you with ready-to-use dilutions. Contact your local PrixMax sales manager for more information.
- Full technical support of the PrixMax laboratory is available through our comprehensive Coolcheck® scheduled coolant analysis program, which at least annually determines the overall condition of the coolant and cooling system.

Dilution Water Quality Requirements

To prepare the ready-to-use dilutions, we strongly recommend the use of deionised or distilled water for optimal performance and controlled quality. Dilution water specifications are set out below.

Impurity	Level
Chloride	25 ppm (max.)
Sulphate	25 ppm (max.)
Calcium	25 ppm (max.)
Magnesium	25 ppm (max.)
Total hardness	100 ppm (max.)

STORAGE AND HANDLING

Transfer of the product should be performed using dedicated lines of material suitable for food grade products. Stainless steel is generally acceptable.

Unopened containers of GLYCHILL™ FG, in the original shipping containers, should be used within two years. Once the containers are opened, the product should be used within 12 months.

TECHNICAL SUPPORT

Full technical support of the PrixMax laboratory is available through our ASTM qualified in-house laboratories, located at the manufacturing plant in Victoria, Australia. Testing services are available from our laboratory staff and technical product managers to assist in the use of GLYCHILL™ products.

PACK SIZES

Part No	Pack Size
GLYFG-D205	205L drum
GLYFG-B1000	1,000L IBC

Please contact us for further enquiries.

TOXICITY AND SAFETY

ENVIRONMENT, HEALTH and SAFETY Information is available on this product in the **Safety Data Sheet (SDS)**. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain the SDS for this product, please contact us.

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QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =**

**COMPANY WITH
ENVIRONMENTAL SYSTEM
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