

FILL FLUID SPECIFICATIONS – PROPYLENE GLYCOL & WATER

Temperature Limits:

At Atm Pressure:	-17 to 93°C (0 to 200°F)
Viscosity at 25°C(77°F):	2.85 cs
Specific Gravity @ 25°C(77°F):	1.02
Coefficient of Thermal Expansion:	0.00034 cc/cc/C (0.00019 cc/cc/F)

Chemical Composition:	30% USP & FCC grade propylene glycol and 70% water (by volume)
CAS Number:	

Description/ Applications: Propylene glycol is commonly used as a raw material for paints and polyester and alkyd resins, a basic component of brake fluids, an ingredient for deicing / antifreeze fluids, and a heat transfer fluid. The food grade is also used as a solvent for flavors, extracts and drugs, as food antioxidants, lubricants and mold inhibitors. Being a Generally Recognized As Safe (GRAS) substance, it may be used as a fill fluid in food, beverage, dairy, and pharmaceutical applications. Since it has a low coefficient of thermal expansion, it is also a good choice in applications requiring high performance as long as the temperature limits are not exceeded. FDA Code of Federal Regulations reference number: 21CFR 184.1666.

USP grade: These chemicals are manufactured under current Good Manufacturing Practices (cGMP). These materials meet the requirements listed in the United States Pharmacopeia (USP). The USP lists each chemical along with certain specifications the product must meet in order to be considered a USP product.

FCC grade. These products meet the specifications listed in the Food Chemicals Codex. This is a book of specifications written by the Food and Nutrition Board, the Institute of Medicine, and the National Academy of Sciences. The chemicals that carry the FCC name are considered “Food Grade.”

A Vapor Pressure Curve does not exist for Propylene Glycol and Water.

Rosemount and the Rosemount logotype are registered trademarks of Rosemount Inc.
All other marks are the property of their respective owners.

Emerson Process Management

Rosemount Division
8200 Market Boulevard
Chanhassen, MN 55317 USA
T (U.S.) 1-800-999-9307
T (International) (952) 906-8888
F (952) 949-7001
www.rosemount.com

Emerson Process Management

Emerson Process Management GmbH & Co.
Argelsrieder Feld 3
82234 Wessling
Germany
T 49 (8153) 9390
F 49 (8153) 939172

Emerson Process Management

Emerson Process Management Asia Pacific
Private Limited
1 Pandan Crescent
Singapore 128461
T (65) 6777 8211
F (65) 6777 0947
Enquiries@AP.EmersonProcess.com

ROSEMOUNT®

For more information:
www.rosemount.com



EMERSON™
Process Management