Silicones
Additives
Chemicals
Lubricants

BRB Pump Fluid 74

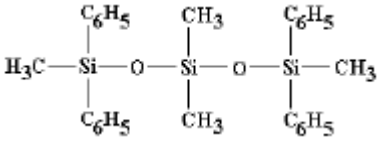
High Vacuum Diffusion Pump Fluid

Issue date: Mar 15, 2012

Description

BRB Pump Fluid 74 is tetramethyltetraphenyltrisiloxane (CAS # 3982-82-9).

Molecular formula:



Applications

BRB Pump Fluid 74 is designed for vacuum systems used in metallurgy, optics, electronics, aerospace, coatings, nuclear energy and any other use requiring a high vacuum of 10^{-6} to 10^{-8} mm_{Hg} (untrapped) and 10^{-10} to 10^{-11} mm_{Hg} (trapped).

Features

- excellent resistance to oxidation, heat, chemicals and radiations
- compatible with butyl and Viton gaskets.
- capability unchanged even after 1000 cycles

Benefits

BRB Pump Fluid 74 outperforms organic fluids in the following functionalities:
- faster pumping, faster cycling, reduced downtimes and maintenance
- longer service life
- traps are unnecessary in many applications
- cleaner systems

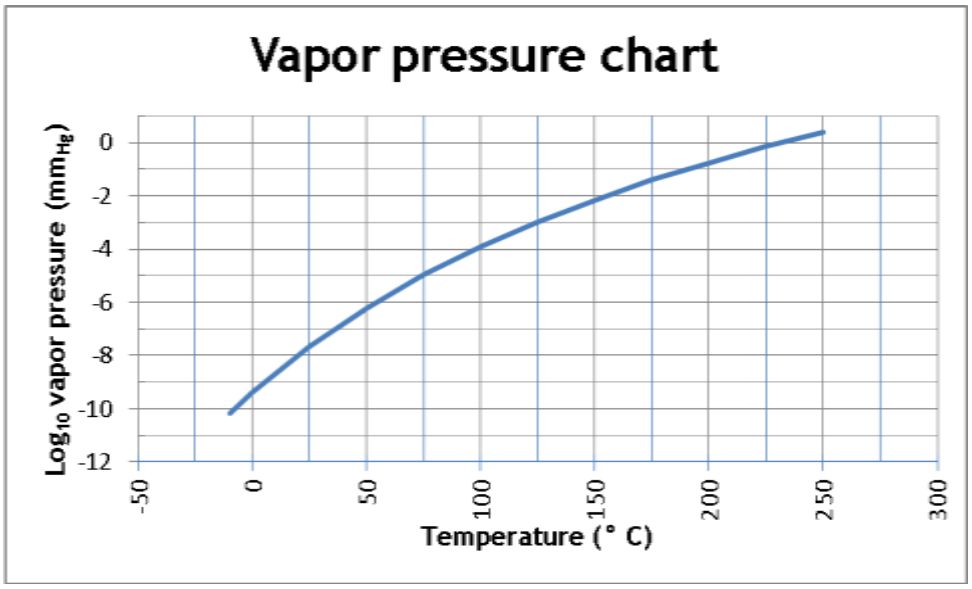
Typical Data

Parameter	Unit	Value
Appearance		Clear liquid
Specific gravity at 25°C		1.07
Viscosity at 25°C	mm^2/s	39
Flash Point °C	°C	221
Ultimate vacuum, untrapped	mm_{Hg}	10^{-7} to 10^{-8}
Ultimate vacuum, trapped	mm_{Hg}	10^{-11}
Vapor pressure at 25°C	mm_{Hg}	$2x10^{-8}$
Typical boiler temperature	°C	220

How to Use

Use the vapour pressure chart of ***BRB Pump Fluid 74*** below to determine:

- the vapour pressure based on the baffle temperature
- the pump operating temperature based on the boiler service pressure



A Product Safety Data Sheet should be obtained from your BRB office prior to use.
ATTENTION: Before handling, read product information, Product Safety Data Sheets and container labels for safe use, and any physical and/or health hazard information.

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