

# Braycote Vacuum Greases



## Gas solubility data for the base fluid

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### Technical Report

#### PFPE Fluids Gas Solubility

PFPE's (perfluoropolyethers) are a line of high performance fluids with an excellent chemical inertness. The solubility of various bases in PFPE's is given in the following table.

GAS	BUNSEN COEFFICIENT AT 20°C <sup>(1)</sup> PFPE
Helium	0.061
Hydrogen	0.100
Nitrogen	0.232
Oxygen	0.359
Air	0.260
Carbon Dioxide	1.500
Cl <sub>2</sub>	-
F <sub>2</sub>	-
NF <sub>3</sub>	-
CF <sub>4</sub>	-
C <sub>2</sub> F <sub>6</sub>	-
SiH <sub>4</sub>	-
SiF <sub>4</sub>	-
SF <sub>6</sub>	4.290
C <sub>2</sub> H <sub>2</sub> ClF <sub>3</sub>	12.555
CHCl <sub>2</sub> F	12.696
CHClF <sub>2</sub>	4.325

(1) Bunsen coefficient is defined as the volume of gas, reduced to 0°C and 760 Torr. which is absorbed by the unit volume of solvent (at the temperature of measurement) under a gas pressure of 760 Torr.