

# Braycote Vacuum Greases



Gas solubility data for the base fluid



## Technical Report

### Perfluoropolyether Lubricants Chemical Resistance

CLASS OF PRODUCT	CHEMICAL PRODUCT	TEMPERATURE AT WHICH FLUORINATED FLUIDS RESIST ON CONTACT (°C)
Organic solvents	All products in this class	300 <sup>(1)</sup>
Organic acids	All products in this class	300 <sup>(1)</sup>
Organic bases <sup>(2)</sup>	Tributylamine	200
	Quinoline <sup>(5)</sup>	200
Inorganic bases <sup>(3)</sup>	Potassium hydroxide <sup>(5)</sup>	200
	Sodium hydroxide	200
	Sodium carbonate	200
Inorganic salts <sup>(3)</sup>	Potassium chloride	250
Inorganic oxidizing agents <sup>(3)</sup>	Fluorine	250
	Chlorine	250
	Bromine	250
	Potassium permanganate	200
	Potassium dichromate <sup>(5)</sup>	200
Inorganic acids <sup>(3)</sup>	Hydrochloric acid	250
	Hydrofluoric acid	250
	Orthophosphoric acid	200
	Sulfuric acid <sup>(5)</sup>	200
	Nitric acid	200
Lewis acids <sup>(4)</sup>	Ferric chloride FeCl <sub>3</sub> <sup>(5)</sup>	200
	Zinc chloride	200
	Boron trifluoride	200
Other	Silicon tetrachloride	150
	Trichlorosilane	150
	Phosphorous tribromide	150
	Phosphorous pentachloride	150

- (1) Fluorinated fluids are soluble in highly fluorinated products.
- (2) The table lists some products of this class which have been laboratory tested and gives the results obtained; for other products, differing from those listed, compatibility tests should be performed under the expected contact conditions.
- (3) Fluorinated fluids are completely inert with regard to chemical products belonging to this class.
- (4) Some members of this class are reactive with regard to fluorinated fluids since they catalyze their decomposition but only at relatively high temperatures.
- (5) In the tests performed with these substances, no marked alterations were recorded at the temperature indicated in the tables and even for longer times (up to 1 month).