## COMPATIBILITY TESTS OF LOW VAPOUR PRESSURE PERFLUOROPOLYETHER OILS WITH UF6

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An extensive study has been carried out in order to evaluate the possible use of the perfluoropolyether fluids, obtained from HFP

or vacuum working fluids, in presence of  $\mathrm{UF}_6$ .

Some physicochemical properties are reported and the results of the tests experienced on perfluoropolyether cuts put into contact with UF $_6$ , in different conditions for long aging time at high temperature in presence of some typical engineering materials. The results, shown in this work, allowed a verification of the long term compatibility of the perfluoropolyether special fractions against UF $_6$  at temperatures up to 130°C. These results still offer a contribution in order to solve some technological problems on UF $_6$  processing.