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**Summary**

for the longest time hexafluoride has been used in the industry in gas insulated systems for its excellent insulation and its performance in the case of electric arc occurrence but at the end of the day it’s not eco-friendly, and thus an alternative such as Perfluoroisobutyronitrile has come into picture being an eco-friendly gas ,but there is a need to introduce a mixture of gases to meet the operation temperatures and therefore we need to take on consideration the ratio effect of each of these gases on the phenomena of partial discharge (PD) which will decrease the performance of the insulating medium , results show that the optimal concentration of the oxygen should be lower than 6% for this composition to be stable.[1]

Note: this is not exactly a 7 pages article but hey if we assume only the content i would say it’s about 7 pages, have a nice day professor.

References (was done by mendeley):

[1] F. Ye *et al.*, “Effect of O2on AC Partial Discharge and Decomposition Behavior of C4F7N/CO2/O2Gas Mixture,” *IEEE Trans. Dielectr. Electr. Insul.*, vol. 28, no. 4, pp. 1440–1448, 2021, doi: 10.1109/TDEI.2021.009626.