

## Radiation

1. Materials exposed to radiation shall be assessed in conformance with requirements from clause 5 of ECSS-Q-ST-70-06 to determine their resistance to the radiation dosage expected during the mission.
2. Evaluation of materials resistance to radiation shall include the combined effects of particle radiation and ultraviolet radiation in the normal space environment, along with any mission-specific radiation levels.
3. The effect of bleaching due to vacuum or air recovery shall be evaluated, in case ex-situ measurements are performed.
4. In case synergistic testing is not possible it shall be proven that synergistic effects caused by radiation and temperature are not degrading the materials properties.
5. In case technical limits prevent the synergistic testing approach, justification for sequential testing shall be provided.

NOTE For example when different acceleration factors are required for particle and UV radiation.