

The present invention relates to methods for leakage tests of articles, specifically spacecrafts, and can be used in the special and space engineering. The proposed method for leakage test of an article consists in balancing, in the test process, the temperatures of gases in the tested article and a reference vessel, which is connected to the article, by mixing the gases, with concurrent monitoring the said temperatures. The reference vessel shall be disconnected from the article only when the temperatures are balanced. The present invention allows measurement accuracy to be increased.