

Abstract

Method for checking the leakproofness of a leakproof and thermally insulating tank for storing a fluid

The invention relates to a method for checking the sealing of a sealed tank for storing a liquefied gas at low temperature, the tank comprising an inner hull (2) and a secondary sealing membrane (7), a secondary space (6) which is arranged between the inner hull (2) and the secondary sealing membrane (7), a primary sealing membrane (9) and a primary space which is arranged between the primary sealing membrane (9) and the secondary sealing membrane (7). The method comprises the following main steps:

- generating a pressure lower than the pressure of the primary space (8) in the secondary space (6) using a suction device (80),
- measuring the temperature of an outer surface of the inner hull (2),
- detecting the location of a sealing defect of the secondary sealing membrane (7) in the form of a cold spot on the outer surface of the inner hull (2).

Figure to be published: Figure 3.