

MIL-P-27407A  
AMENDMENT 1  
17 JUN 1988

MILITARY SPECIFICATION

PROPELLANT PRESSURIZING AGENT, HELIUM

This amendment forms a part of Military Specification MIL-P-27407A, dated 28 November 1978, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 3

3.1.2, delete "filtration requirement 3.1.3 and," from lines 5 and 6.

3.1.3, delete and substitute:

"3.1.3 Filtration. Unless otherwise specified, Type I and II need not be filtered."

3.1.3.1, delete in its entirety.

3.1.3.2, delete in its entirety.

PAGE 9

4.3.2.2, delete and substitute:

"4.3.2.2 Sampling Plan - Type II. A lot shall consist of one of the following:

(a) The helium produced in not more than 24 consecutive hours from a continuous process which is used to fill shipping containers directly from the process output. A continuous process shall be the production of product by continuous input of raw materials and output of finished product by one manufacturer in one plant with no change in manufacturing conditions or materials.

(b) The helium from individual runs of a batch process which is used to fill shipping containers directly from the process output. A batch process shall be the production of product by runs from single additions of raw materials which are reacted and purified forming the product.

(c) The helium from either or both the continuous and batch processes which is held in a single storage tank and subsequently withdrawn to fill shipping containers. The product shall be homogenous at the time of withdrawal and shall not be added to while being withdrawn. After each addition to the storage tank, the contents shall constitute a separate lot."

FSC 9135

HL-2-27407A  
AMENDMENT 1

PAGE 16

4.6.1 delete and substitute:

"4.6.1 Liquid Purity Assurance. Liquid helium is generally assumed to be extremely pure because contaminants should have been removed during the early stages of the liquefaction process which occurs at 4.2°K (-268.9°C)."

4.6.1.1(c), delete in its entirety.

4.6.2, delete and substitute:

"4.6.2 Helium Assurance Test. The requirement for insuring that the loaded fluid is liquid helium can be satisfied by:

(a) Analyzing the vent gas from one of the shipping containers or the storage tank from which the shipping containers are filled (thermal conductivity, mass spectrometer, etc.); or

(b) Demonstrating that the fluid in one of the shipping containers or the storage tank from which the shipping containers are filled is below the hydrogen triple point (13.8°K)

PAGE 18

5.2.3.2, delete in its entirety.

PAGE 19

6.2(i), delete and substitute:

"(i) Users of Type II who are concerned about particulate contamination should maintain a 10 micron in-line filter."

Custodians:  
Air Force - 68

Preparing Activity:  
Air Force - 68

Review Activities:  
Air Force - 12, 19

Civil Agency Interest:  
NASA

User Activities:  
Navy - SH

(Project 9135-0122)