

MILITARY SPECIFICATION
SAMPLER, CRYOGENIC LIQUID

This amendment forms a part of Military Specification MIL-S-27626D (USAF)
Dated 16 August 1979.

1. Page 1, paragraph 2.1 SPECIFICATIONS, Federal: Delete O-T-634 Trichloroethylene, Technical.
2. Page 1, paragraph 2.1 STANDARDS, Military: Add MIL-STD-1359, Cleaning Methods and Procedures for Breathing Oxygen Equipment.
3. Page 2, paragraph 2.1 DRAWINGS, Cosmodyne: Delete.
4. Page 2, paragraph 2.1 DRAWINGS, Add Air Force SA-ALC Drawing 7545352, Requirements for Finishes, Protective, and Codes for San Antonio ALC Ground and Ground Support Equipment.
5. Page 2, paragraph 3.1 Components: Delete existing paragraph and substitute the following:
3.1 Components. The sampler shall consist of the following major components:

Liquid Sampling Assembly
Detachable Shipping Cylinder
Carrying Case
Hoses
Adapters

6. Page 3, paragraph 3.2 Materials. Add the following sentence to the existing paragraph:
" All metals used shall be of the corrosion resistant type or treated to resist corrosion."
7. Page 3, Add the following paragraph under section 3.2 Materials:
3.2.1 Recycled, Virgin, and Reclaimed Materials. Provided that all other requirements of this specification are met, reclaimed materials shall be used to the maximum extent possible with no exclusion to the use of recovered materials and no requirement that an item be manufactured from virgin materials.
8. Page 3, paragraph 3.3.1 Configuration. Delete existing paragraph and substitute the follow:
3.3.1 Configuration. The liquid sample container shall be capable of being precooled to the atmospheric pressure boiling temperature of the liquid being sampled prior to the actual sampling operation. The detachable shipping cylinder shall be certified to DOT Specification 3A1800.

9. Page 3, paragraph 3.7.1 Surfaces contacting oxygen. All surfaces, parts, fittings, etcetera, of the sampler that will be in contact with high-purity oxygen shall be thoroughly cleaned in accordance with procedures in MIL-STD-1359. No other cleaning, priming, or painting with organic materials shall be performed on these surfaces.
10. Page 3, paragraph 3.7.2 Exposed parts and surfaces. Delete existing paragraph and substitute the following:
3.7.2 Exposed parts and surfaces. All exposed metal parts and surfaces, except parts and surfaces that contact high-purity oxygen, shall be cleaned, treated, and finished per Air Force San Antonio ALC Drawing 7545352, with the exception that no paint or primer is to be applied to components other than the carrying case.
11. Page 4, paragraph 3.11.1.1 Degreasing: Delete existing paragraph and add the following:
3.11.1.1 Degreasing. Sampler surfaces, parts, fittings, etcetera, that will be degreased in accordance with procedures in MIL-STD-1359.
12. Page 6, paragraph 4.5.5 Individual operational test: Delete existing paragraph and substitute the following:
4.5.5 Individual operational test. Each sampler shall be connected to a source of liquid oxygen. The sampler shall be used in accordance with the operational instructions to obtain a liquid sample. The sampler shall then be disconnected from the liquid source and the sample allowed to vaporize. A resulting cylinder pressure of less than 1600 psig within 20 minutes from the time the sample was taken shall be cause for rejection. The cylinder shall then be left pressurized for at least 24 hours. Any loss of pressure attributable to leakage shall be cause for rejection.

CUSTODIAN:
Air Force – 68

Preparing Activity:
Air Force – 68

REVIEWER ACTIVITY:
Air Force – 99

Project No. 6695-F058