

[METRIC]
 A-A-58060
 3 September 1996
 SUPERSEDING
 BB-F-1421B
 5 March 1982

COMMERCIAL ITEM DESCRIPTION

FLUOROCARBON AND OTHER REFRIGERANTS

The General Services Administration has authorized the use of this commercial item description as a replacement for all types of BB-F-1421 for all federal agencies.

1. SCOPE. This commercial item description covers the requirements for fluorocarbon and other refrigerants.
2. CLASSIFICATION. The refrigerants shall conform to the following types:

Type	Chemical Name
R11	Trichloromonofluoromethane
R12	Dichlorodifluoromethane
R13	Monochlorotrifluoromethane
R22	Monochlorodifluoromethane
R23	Trifluoromethane
R32	Difluoromethane
R113	Trichlorotrifluoroethane
R114	Dichlorotetrafluoroethane
R123	Dichlorotrifluoroethane
R124	Monochlorotetrafluoroethane
R125	Pentafluoroethane
R134a	Tetrafluoroethane
R143a	Trifluoroethane
R401A	Monochlorodifluoromethane (53%); Difluoroethane (13%); Monochlorotetrafluoroethane (34%)
R401B	Monochlorodifluoromethane (61%); Difluoroethane (11%); Monochlorotetrafluoroethane (28%)
R402A	Pentafluoroethane (60%); Propane (2%); Monochlorodifluoromethane (38%)
R402B	Pentafluoroethane (38%); Propane (2%); Monochlorodifluoromethane (60%)

Beneficial comments, recommendations, additions, deletions, clarifications, etc, and any data which may improve this document should be sent to:

San Antonio ALC/SFSP
 1014 Billy Mitchell Blvd/STE 1
 Kelly AFB TX 78241-5603

AMSC N/A

FSC 6830

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

A-A-58060

R404A	Pentafluoroethane (44%); Trifluoroethane (52%); Tetrafluoroethane (4%)
R405A	Monochlorodifluoroethane (45%); Difluoroethane (7%); Monochlorodifluoroethane (5.5%); Octafluorocyclobutane (42.5%)
R406A	Monochlorodifluoromethane (55%); Isobutane (4); Monochlorodifluoroethane (41%)
R407A	Difluoromethane (20%); Pentafluoroethane (40%); Tetrafluoroethane (40%)
R407B	Difluoromethane (10%); Pentafluoroethane (70%); Tetrafluoroethane (20%)
R407C	Difluoromethane (23%); Pentafluoroethane (25%); Tetrafluoroethane (52%)
R408A	Pentafluoroethane (7%); Trifluoroethane (46%); Monochlorodifluoromethane (47%)
R409A	Monochlorodifluoromethane (60%); Monochlorotetrafluoroethane (25%); Monochlorodifluoroethane (15%)
R410A	Difluoromethane (50%); Pentafluoroethane (50%)
R410B	Difluoromethane (45%); Pentafluoroethane (55%)
R411A	Propylene (1.5%); Monochlorodifluoromethane (87.5%); Difluoroethane (11.0%)
R411B	Propylene (3%); Monochlorodifluoromethane (94%); Difluoroethane (3%)
R412A	Monochlorodifluoromethane (70%); Octafluoropropane (5%); Monochlorodifluoroethane (25%)
R500	Dichlorodifluoromethane (74%); Difluoroethane (26%)
R502	Monochlorodifluoromethane (49%); Monochloropentafluoroethane (51%)
R503	Trifluoromethane (40%); Monochlorotrifluoromethane (60%)
R507	Pentafluoroethane (50%); Trifluoroethane (50%)
R508	Trifluoromethane (39%); Hexafluoroethane (61%)
R509	Monochlorodifluoromethane (44%); Octafluoropropane (56%)

3. SALIENT CHARACTERISTICS. Refrigerants shall conform to

Air-Conditioning and Refrigeration Institute (ARI) Standard 700,
Specifications for Fluorocarbon and Other Refrigerants,

when tested according to

Appendix C to ARI Standard 700, *Analytical Procedures for ARI
Standard 700*.

4. REGULATORY REQUIREMENTS. The offeror/contractor is encouraged to use recovered materials to the maximum extent practicable, in accordance with paragraph 23.403 of the Federal Acquisition Regulation (FAR). Note that recovered materials will require purification to meet the requirements of ARI Standard 700.

5. QUALITY ASSURANCE PROVISIONS.

5.1 Product Conformance. The products provided shall meet the salient characteristics of this commercial item description, conform to the producer's own drawings, specifications, standards, and quality assurance practices and be the same as the same product offered for sale in the commercial market. The Government reserves the right to require proof of such conformance.

6. PACKAGING.

6.1 Compressed Gas Cylinders.

6.1.1 Reusable cylinders and valves. Unless otherwise specified herein, the refrigerants shall be contained in Government-furnished cylinders conforming to Title 49 of the Code of Federal Regulations. When specified (see section 7), cylinders and valves shall be furnished by the contractor and, for military users, shall conform to RR-C-910 and MIL-DTL-2/22, respectively. When specified (see section 7), the refrigerants shall be contained in contractor-owned, DOT-approved containers with valves with outlet connection No 660.

6.1.2 Disposable cylinders. When specified (see section 7), the contractor shall furnish disposable containers of the capacity as specified conforming to DOT Specification 39.

6.1.3 Cylinder maintenance. The contractor shall maintain and fill Government furnished cylinders according to MIL-STD-1411.

6.2 Drums (types R11, R113, and R123). These refrigerants shall be shipped in DOT approved containers. When specified (see section 7), drums conforming to UN type containers according to Title 49, Subpart L, shall be used.

7. NOTES.

7.1 Intended use. Refrigerants covered by this specification are intended for use in refrigeration and air conditioning units; however, some may be used as nonpolar heat transfer and electronic isolation media.

7.2 Ordering data. Purchasers should select the preferred options permitted herein and include the following information in procurement documents:

- a. Title, number, and date of this Commercial Item Description.
- b. Type of refrigerant required (section 2).
- c. When the contractor shall furnish Government-approved cylinders (section 6.1.1).
- d. When the contractor shall furnish DOT-approved disposable containers (section 6.1.2).

A-A-58060

e. When the contractor shall provide contractor-owned cylinders (section 6.1.1).

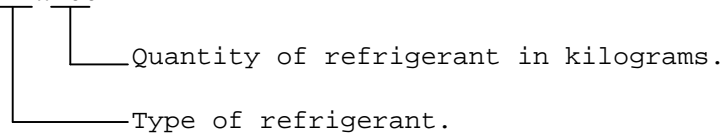
f. When cylinders conforming to DOT specification 39 are required (section 6.1.2).

g. When drums are required (section 6.2).

7.3 Part identification number (PIN). The following part identification numbering procedure is for Government purposes and does not constitute a requirement for the contractor.

This example describes a part numbering system for CID A-A-58060.

AA58060-R22W100



Review activity:
DLA-GS

Preparing activity:
Air Force - 68

Civil agency coordinating activity:
GSA-FSS

(Project 6830-F125)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

INSTRUCTIONS

1. The preparing activity must complete blocks 1, 2, 3, and 8. In block 1, both the document number and revision letter should be given.
2. The submitter of this form must complete blocks 4, 5, 6, and 7.
3. The preparing activity must provide a reply within 30 days from receipt of the form.

NOTE: This form may not be used to request copies of documents, nor to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

I RECOMMEND A CHANGE:

1. DOCUMENT NUMBER

A-A-58060

2. DOCUMENT DATE (YYMMDD)

960903

3. DOCUMENT TITLE

FLUOROCARBON AND OTHER REFRIGERANTS

4. NATURE OF CHANGE (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)

5. REASON FOR RECOMMENDATION

6. SUBMITTER

a. NAME (Last, First, Middle Initial)

b. ORGANIZATION

c. ADDRESS (Include Zip Code)

d. TELEPHONE (Include Area Code)

(1) Commercial

(2) AUTOVON

(If applicable)

7. DATE SUBMITTED (YYMMDD)

8. PREPARING ACTIVITY

a. NAME

SA-ALC/SFSP

b. TELEPHONE (Include Area Code)

(1) Commercial

(210) 925-7847

(2) AUTOVON

945-7847

c. ADDRESS (Include Zip Code)

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IF YOU DO NOT RECEIVE A REPLY WITHIN 45 DAYS, CONTACT:

Defense Quality and Standardization Office

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