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COMPONENT BULLETIN No. 10

SUPPLEMENTARY MILITARY REQUIREMENTS

FOR FOTP-12

FLUID IMMERSION TEST PROCEDURE

FOR

FIBER OPTIC CONNECTING DEVICES

(FOTP-12 IS PUBLISHED IN RS-455-4)

ELECTRONIC INDUSTRIES ASSOCIATION

ENGINEERING DEPARTMENT

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FOTP-12

SUPPLEMENTARY REQUIREMENTS

The following supplementary requirements shall apply only when specified by the purchaser in the inquiry, contract, or order, for non-military agencies of the U. S. Government; these supplementary requirements automatically apply whenever FOTP-12 is specified in U. S. military documents or for any U. S. military application.

S1. Applicable Documents

S1.1 The following documents of the issue in effect on date of material purchase form a part of this specification to the extent referenced herein:

S1.1. Federal Specifications:¹

P-D-680	Dry Cleaning Solvent
TT-T-291	Thinner, Paint, Mineral Spirits, Regular and Odorless
TT-I-735	Isopropyl Alcohol

S1.2. Military Specifications:¹

MIL-G-3056	Gasoline. Automotive, Combat
MIL-H-5606	Hydraulic Fluid, Petroleum Base, Aircraft, Missile, and Ordnance
MIL-T-5624	Turbine Fuel, Aviation, Grades JP-4 and JP-5
MIL-L-7808	Lubrication Oil, Aircraft Turbine Engine, Synthetic Base
MIL-A-8243	Anti-Icing and Deicing-Defrosting Fluid
MIL-L-23699	Lubricating Oil, Aircraft Turbine Engines, Synthetic Gas
MIL-C-25769	Cleaning Compound, Aircraft Surface, Alkaline Waterbase

S2 Additions, Deletions and Exceptions to RS-455-12, FOTP-12.

S2.1 Test Equipment

Para. 2.1-E. The following supplementary requirement is added:

"Unless otherwise specified, for military applications the test fluids of Table I shall be used. Test temperatures shall be at least 10°C below the flash point of the fluid being used."

¹ Available from Naval Publications and Forms Center, 5801 Tabor Ave., Philadelphia, PA 19120, or from the procuring activity or as directed by the contracting officer.

FOTP-12 Supplementary Requirements (Continued)

S2. Additions, Deletions and Exceptions to RS-455-12 (FOTP-12) (Continued)

S2.1 Test Equipment (continued)

Table I. The following table is inserted following
Para. 2.1-E and preceding Section 3:

TABLE I. Test Fluids and Cycles

Fluid	Test Cycles				Number of cycles
	Unmated			Mated	
	Condition	Immerse ±3°C	Drain	Oven cure 6 hours ±3°C	
(a) MIL-H-5606 (hydraulic fluid) (b) Hydraulic fluid <u>1/</u> (c) MIL-T-5624 (grade JP-5)		5 minutes @ 85°C 85°C 25°C	1 hour min. in air at room tempera- ture	100°C 100°C 55°C	7
(d) MIL-L-7808 (lubricating oil)		120°C		125°C	
(e) MIL-L-23699 (lubricating oil)		120°C		125°C	
(f) MIL-A-8243 <u>3/</u> (defrosting fluid)		65°C		100°C	
(g) MIL-L-25769 <u>3/</u> (diluted for cleaning)		65°C		100°C	
(h) MIL-G-3056. type I (gasoline)					5
(i) Isopropyl alcohol per TT-I-735, grade A or B, mixed one part by volume with three parts by volume of mineral spirits per TT-T-291, type I or P-D-680, type I		5 minutes @ 25°C	24 hours in free air		
(j) 1-1-1 trichloroethane					
(k) Azeotrope or trichloro- trifluoroethane (Freon TMC or equal) and methylene chloride					
(1) Coolant-dielectric fluid synthetic silicate ester base <u>2/</u>	30 minutes in oven at 175°C	1 ± 0.1 minute in fluid at room tempera- ture	1 hour minimum in air at room tempera- ture		1

1/ M2-V Chevron oil ST0145LB0001 or equivalent.

2/ Coolanol 25 or equivalent.

3/ Mated connectors.

FOTP 12 Supplementary Requirements (Continued)

S2.2 Test Samples

Para. 3.1-A. The following supplementary requirement is added:

"The cables used shall be of the smallest diameter specified for the connectors and shall be polytetrafluoroethylene jacketed cables only."

Para. 3.1-B. The standard FOTP requirements is deleted and the following is substituted:

"B. An unmated connector terminated in a cable 2 meters (or 6 ft.) long and of minimum diameter specified for the connector. The cables used shall be polytetrafluoroethylene jacketed only."

S2.3 Summary

Para. 6.2-G. The following additional paragraph is added:

"G. Whether samples are assembled or unassembled."

