

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:

 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:

 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

<u>Para. 2.1-E.</u> 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."

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FOTP-12 Supplementary Requirements (Continued)

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

S2.1 Test Equipment (continued)

 $\underline{\text{Table I}}.$ The following table is inserted following Para. 2.1-E and preceding Section 3:

TABLE I. Test Fluids and Cycles

·		Test Cycles			
	Unmated			Mated	Number
Fluid	Condition	Immerse	Drain	Oven cure	of
	[±3°C		6 hours	cycles
				±3°C	
		5	1		
		minutes	1	•	
		@			
() , , , , , , , , , , , , , , , , , ,		0586		10000	
(a) MIL-H-5606 (hydraulic fluid)		85°C	}	100°C	
(b) Hydraulic fluid 1/		85°C		100°C	
(c) MIL-T-5624 (grade JP-5)		25°C	1 hour	55°C	
(d) MIL-L-7808 (lubricating oil)		120°C	min. in	125°C	_
(e) MIL-L-23699 (lubricating oil)		120°C	air at	125°C	7
(f) MIL-A-8243 3/ (defrosting		6580	room	10000	
fluid (g) MIL-L-25769 3/ (diluted		65°C	tempera-	100°C	
		65°C	ture	10000	ł
for cleaning (h) MIL-G-3056. type I		83 C		100°C	
(gasoline)					I
(i) Isopropyl alcohol per		5	24		
TT-I-735, grade A or B,		minutes	hours		1
mixed one part by volume		0 mrudes	in		f
with three parts by		25°C	free		l
volume of mineral spirits		25 6	air		5
per TT-T-291, type I or		<u> </u>	all		,
P-D-680, type I					
(j) l-l-l trichloroethane]
(k) Azeotrope or trichloro-				j	
trifluoroethane (Freon TMC					
or equal) and methylene					
chloride				1	
(1) Coolant-dielectric fluid	30 minutes	1 ± 0.1	1 hour		
synthetic silicate	in oven	minute	minimum	1	i
ester base 2/	at 175°C	in fluid	in air		
-		at room	at room		1
		tempera-	tempera-		1
		ture	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."

<u>Para. 3.1-B.</u> The standard FOTP requirements is <u>deleted</u> 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 polytetrafluoro-ethylene jacketed only."

S2.3 Summary

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

"G. Whether samples are assembled or unassembled."

