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METRIC
DOD-E-700A
AMENDMENT 1
28 September 1990

MILITARY SPECIFICATION

ENAMEL, DECK, INTERIOR, GRAY (FORMULA NO. 20L) (METRIC)

This amendment forms a part of DOD-E-700A, dated 12 January 1978, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

2.2, ASTM: Delete "D 209 - Lampblack, Specification for."

DD Form 1426 note, line 3: Delete "Naval Ship Engineering Center, SEC 6124" and substitute "Naval Sea Systems Command, SEA 55Z3."

DD Form 1426 note, line 4: Add "-5101" after "20362".

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2.2, ASTM, D 3335: Delete title and substitute "Standard Test Methods for Low Concentrations of Lead, Cadmium, and Cobalt in Paint by Atomic Absorption Spectroscopy. (DoD adopted)."

2.2 ASTM: Add "ASTM D 1364 - Standard Test Method for Water in Volatile Solvents (Fischer Reagent Titration Method)(DoD adopted).

AMSC N/A FSC 8010

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Table I: Delete and substitute.

TABLE I. Formula No. 20L.

Ingredients	Specification	Kg	(Pounds)[1]
Titanium dioxide[2]	-------	34.091	(75)
Carbon black [3]	-------	0.591	(1.3)
Magnesium silicate	MIL-P-15173, type A	154.545	(340)
Alkyd resin solution[4]	TT-P-266, type I, class A	86.364	(190)
Varnish, solution	MIL-V-15218, type II	100.0	(220)
Paint thinner	TT-T-291, type II, grade A	95.455	(210)
Drier[5]	-------	------	---

[1]The formula is given slightly in excess of 100 gallons to allow for normal manufacturing loss (see 6.6).

[2]The titanium dioxide pigment shall be an aluminum oxide, modified semichalking, rutile titanium dioxide containing no less than 96 percent titanium dioxide and between 0.5 and 2.5 percent aluminum oxide.

[3]Use "Raven 8000" by Columbian Carbon Company or equal.

[4]The alkyd resin solution shall conform to type I, class A of TT-R-266. In addition, it shall conform to the solvent requirements of TT-R-266, applicable to alkyd resin solutions intended for use in coating used in areas with regulations controlling the emission of solvents into the atmosphere (see 6.5).

[5]Types and amounts of driers shall be the manufacturer's choice. Driers shall contain no heavy metals and finished paint shall meet all requirements of this specification.

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Table II, Characteristics: Last line under "maximum", delete "0.5" and substitute "0.06".

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3.7.7.1, line 1, title: Delete "full" and substitute "filled."

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Table III, Test, lines 19 and 20: Delete "Stability in partially full container" and substitute "Skinning (partially filled container)."

Table III, Applicable method FED-STD-141:

Change "4021" to "4021.1."
Change "4053" to "4053.1."
Delete "4081".
Change "4061" to "4061.2."
Change "6101" to "6101.1."
Change "4321" to "4321.2."
Change "4331" to "4331.1."
Change "4250" to "4250.1."
Change "3011" to "3011.2."
Change "3021" to "3021.1."
Change "4203" to "4203.1."
Change "5141" to "5141.1."

Table III, Applicable ASTM test method, line 5: Add "D 1364."

4.4.1, lines 1 and 2: Delete "by method 7021 of FED-STD-141." and substitute "in accordance with ASTM D 563."

4.4.1, line 5: Delete "by use of the procedure 4.2 of method 7021 of FED-STD-141." and substitute "in accordance with ASTM D 563."

4.4.2, line 1: Change "4061" to 4061.2."

4.4.3, line 1: Change "6101" to "6101.1."

4.4.6, line 2: Change "4321" to "4321.2."

4.4.7, line 4: Change "4331" to "4331.1."

4.4.7, line 6: Change "2131" to "2131.1."

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4.4.8.1, line 1: Change "2012" to "2012.2."

4.4.9.1, line 1: Change "2012" to "2012.2."

4.4.10, line 5: Change "4250" to "4250.1."

4.4.11, line 2: Change "3011" to "3011.2."

4.4.12.1, line 2: Change "3021" to "3021.1."

4.4.13, line 3: Change "4203" to "4203.1."

4.4.15, line 1: Change "5141" to "5141.1."

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Table IV, Ingredients, line 2: Delete "lampblack" and substitute "carbon black."

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Concluding material, user activities, Navy: Add "YD."

Custodians:
Army - ME
Navy - SH
Air Force - 99

Review activities:
Air Force - 84

User activities:
Navy - OS, MC, YD

Preparing activity:
Navy - SH
(Project 8010-0282)