

| METRIC |

DOD-E-698C
AMENDMENT 1
12 September 1990

MILITARY SPECIFICATION

ENAMEL, ALKYD, DECK, BLACK (FORMULA NO. 24) (METRIC)

This amendment forms a part of DOD-E-698C, dated 12 January 1978, and is approved for use by all Departments and Agencies of the Department of Defense.

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2.1: Delete "MIL-Z-15486 - Zinc Oxide, Technical (Acicular, Paint Use)."

DD Form 1426 note, line 3: Delete "Naval Ship Engineering Center, SEC 6124" and substitute "Naval Sea Systems Command, SEA 5523."

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

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2.2, ASTM: Add the following:

- "D 79 - Standard Specification for Zinc Oxide Pigments. (DoD adopted)
- D 1364 - Standard Test Method for Water in Volatile Solvents (Fischer Reagent Titration Method). (DoD adopted)
- D 3335 - Standard Test Method for Low Concentrations of Lead, Cadmium, and Cobalt in Paint by Atomic Absorption Spectroscopy. (DoD adopted)."

2.2, ASTM: Delete the following:

- "D 209 - Lampblack, Specification for.
- D 2088 - Low Concentrations of Lead in Paint, Determination of."

AMSC N/A

FSC 8010

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Table I: Delete and substitute.

TABLE I. Formula No. 24.

Ingredients	Specification	kg	(Pounds) ¹ ✓
Carbon black	² ✓	16.636	(30)
Zinc oxide	ASTM D 79	27.273	(60)
Magnesium silicate	MIL-P-15173, type A	95.455	(210)
Varnish, phenolic, mixing	MIL-V-15218, type II	120.455	(265)
Alkyd resin solution	³ ✓	104.545	(230)
Paint thinner	TT-P-291, type II, grade A	77.727	(171)
Drier ⁴ ✓	-----	----	---

- ¹ ✓ The formula is given slightly in excess of 100 gallons to allow for normal manufacturing loss (see 6.6).
- ² ✓ "Raven 8000" by Columbian Carbon Company or equal.
- ³ ✓ The alkyd resin solution shall conform to type I, class A of TT-R-266. In addition, it shall conform to the solvent requirement of TT-R-266, applicable to alkyd resin solutions intended for use in coatings used in areas with regulations controlling the emission of solvents into the atmosphere (see 6.5).
- ⁴ ✓ 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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Table III, Test: 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:

Add "D 1364" below "D 563".
Delete "2088" and substitute "3335."

4.4.2, line 1: Change "4061" to "4061.2."
4.4.3, line 2: Change "6101" to "6101.1."
4.4.5, line 2: Delete "2088" and substitute "3335."

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4.4.6, line 2: Change "4321" to "4321.2."
4.4.7, line 4: Change "4331" to "4331.1."
4.4.7, line 5: Change "2131" to "2131.1."
4.4.8.1, line 2: 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: Delete "Lampblack" and substitute "carbon black."

Custodians:

Army - MR
Navy - SH

Preparing activity:

Navy - SH
(Project 8010-0280)

Review activities:

Army - ME
Navy - SA, YD