

INCH-POUND

P-D-245F
 AMENDMENT 1
October 11, 1991

FEDERAL SPECIFICATION

DETERGENT, GENERAL PURPOSE, LAUNDRY AND HAND DISHWASHING (GRANULAR)

This amendment forms a part of Federal Specification P-D-245F, dated July 11, 1990, and is approved by the Assistant Administrator, Office of Federal Supply and Services, General Services Administration, for the use of all Federal agencies.

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3.1.1, at the end of the paragraph: Add "It shall not contain any optical brighteners (fluorescent dyes) (see 4.2.1.1)."

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3.1.2, line 5, after "phosphates": Add "or optical brighteners (fluorescent dyes)"

3.1.3, at the end of the paragraph: Add "It shall not contain any optical brighteners (fluorescent dyes) (see 4.2.1.1)."

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3.4, table I: Add new requirement as follows:

" Optical brighteners	(see 3.1.1)	(see 3.1.2)	(see 3.1.3)	"
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3.5.1, line 2: Delete "laundary" and substitute "laundry".

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4.2.1.1, line 2: Delete "the type II detergent does" and substitute "type I, II and III detergent does not contain any optical brighteners (fluorescent dyes), (see 3.1.1, 3.1.2, and 3.1.3), and type II detergent does not".

AMSC N/A

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Table II: Add the following new characteristic:

" Optical brightener	3.4	4.3.13	1	X	- "
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Add the following new paragraph:

"4.3.13 Optical brightening agents. The test detergent shall be evaluated against the American Association of Textile Chemists and Colorists (AATOC) standard detergent (without optical brightener) (see 6.5). Wash tests shall be performed in a Terg-O-Tometer (see 6.6) (or a laboratory scale, agitator-type washing machine) in 1 L of 0.25 percent detergent solution at $49 \pm 1^{\circ}\text{C}$ and at a speed of 120 cycles per minute. Place 25 g (4 by 5 inch swatches) of white cotton fabric, bleached desized (see 6.7), into the solution and wash for 20 minutes. Hand squeeze the swatches and rinse for 5 minutes in the Terg-O-Tometer in 1 L of tap water at 15 to 21°C and 120 cycles per minute. Hand squeeze the swatches and press between two pieces of clean, white cotton sheeting. Air dry at ambient temperature. Evaluate the swatches visually to determine if the effect (absence of optical brighteners) obtained with the test detergent is equal to that obtained with the AATOC Standard Detergent without optical brightener. A standard ultraviolet light source, such as a Macbeth lamp, Model AKP-82 (or equivalent), (Macbeth Corporation, Newburgh, NY 12550), may be used for illumination."

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Add the following paragraphs:

"6.5 AATOC standard detergent without optical brightener. The AATOC standard detergent without optical brightener may be obtained from AATOC, P.O. Box 12215, Research Triangle Park, NC 27709.

6.6 Tergo-O-Tometer. The Terg-O-Tometer may be obtained from the United States Testing Company, 1415 Park Avenue, Hoboken, NJ 07030.

6.7 White cotton fabric. The white cotton fabric may be obtained from Testfabrics, Inc., P.O. Drawer O, Middlesex, NJ 08846."

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MILITARY INTERESTS:

Custodians

Army - GL
Navy - YD
Air Force - 99

Review Activities

Army - MD
Air Force - 84

User Activities

Navy - MC, MS, SH

CIVIL AGENCY COORDINATING ACTIVITIES:

GSA - FSS
EPA
VA - OSS

PREPARING ACTIVITY:

Army - GL
(Project 7930-0412)