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## Standard Specification for Combination Bar Soap<sup>1</sup>

This standard is issued under the fixed designation D 2179; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

<sup>ε1</sup> NOTE—Section 7 was added and Sections 3 through 5 were renumbered in April 1990.

### 1. Scope

1.1 This specification covers bar soap containing soap and detergent surfactant as the major active ingredients. This bar is intended for toilet use in soft and hard water.

### 2. Referenced Document

- 2.1 *ASTM Standard:*  
D 460 Test Methods for Sampling and Chemical Analysis of Soaps and Soap Products<sup>2</sup>

### 3. Ordering Information

- 3.1 The material shall be purchased by net weight.

### 4. General Requirements

4.1 Combination bar soap shall be in bar form, of firm consistency, uniform texture and color, and pleasantly scented. It shall lather freely when used with water having a

hardness of 300 ppm calculated as CaCO<sub>3</sub>.

### 5. Chemical Composition

5.1 Combination bar soap shall conform to the following requirements as to chemical composition. The percentage of each constituent shall be calculated on the basis of the bar as received.

Moisture and matter volatile at 105°C, max, %	14.0 <sup>A</sup>
Detergent surfactant, min, %	15.0
Anhydrous soap, calculated as sodium soap, <sup>B</sup> min, %	40.0
Free alkali, calculated as NaOH, max, %	0.05
pH of a 1 % solution:	
max	10.5
min	8.5

<sup>A</sup> Deliveries that yield more than 14 % volatile matter shall be rejected without further test.

<sup>B</sup> Although calculated as sodium soap, other metallic soaps may be present.

### 6. Methods of Sampling and Analysis

6.1 Sample and analyze the material in accordance with Test Methods D 460. The purchaser reserves the right to use any additional information to ascertain whether the material conforms to this specification.

### 7. Keyword

7.1 bar soap

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee D-12 on Soaps and Other Detergents and is the direct responsibility of Subcommittee D12.22 on Specifications for Soaps and Synthetic Detergents.

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<sup>2</sup> *Annual Book of ASTM Standards*, Vol 15.04.

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