



Designation: D 534 – 74 (Reapproved 1995)

## Standard Specification for Alkaline Soap Powder<sup>1</sup>

This standard is issued under the fixed designation D 534; 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.

### 1. Scope

1.1 This specification covers alkaline soap powder.

### 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 Soap powder shall be purchased by net weight but in the event of a weight shortage, it shall be recognized that soap powder is subject to a possible gain or loss of weight due to atmospheric or storage conditions, or both. Therefore the calculation of the net weight shall be based upon a product containing 55 % of anhydrous soap content and alkaline salts (expressed as  $\text{Na}_2\text{CO}_3$ ). The net weight of the material to be paid for shall be calculated as follows:

$$W = (R \times T)/55$$

where:

$W$  = net weight of the material to be paid for on 55 % anhydrous soap content and alkaline salts basis,

$R$  = net weight of the material as received, and

$T$  = total anhydrous soap content, and alkaline salts calculated as  $\text{Na}_2\text{CO}_3$ .

### 4. General Requirements

4.1 Soap powder shall be a uniform mixture of soap and alkaline salts, in powdered form. It shall be readily soluble in tepid water, shall contain no free caustic alkali or inert fillers, and shall be free from objectionable odor.

### 5. Chemical Composition

5.1 Soap powder shall conform to the requirements as to chemical composition prescribed in Table 1.

### 6. Methods of Sampling and Analysis

6.1 The material shall be sampled and analyzed in accordance with Test Methods D 460. The purchaser reserves the right to use any additional available information to ascertain whether the material conforms to this specification.

### 7. Packaging and Labeling

7.1 The material shall be packaged and labeled in conformity with local, state, and federal requirements.

### 8. Keyword

8.1 soap powder

TABLE 1 Chemical Requirements

|   |    |
|---|----|
| Anhydrous soap content, min, %  | 15 |
| Total alkalinity calculated as $\text{Na}_2\text{CO}_3$ , min, %                                | 30 |
| Total anhydrous soap content and alkaline salts calculated as $\text{Na}_2\text{CO}_3$ , min, % | 55 |

<sup>1</sup> This specification is under the jurisdiction of the 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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