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Standard Specification for Hand Scrubbing Soap (Grit Soap) Paste and Bar¹

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^{e1} NOTE—Section 6 was added in April 1990.

1. Scope

1.1 This specification covers a scrubbing soap suitable for removing oils and greases and other heavy occupational soils from hands. Two types of soap are covered as follows:

- 1.1.1 *Type A*—Paste soap, and
- 1.1.2 *Type B*—Bar soap.

2. Referenced Documents

- 2.1 *ASTM Standards*:
 - D 502 Test Method for Particle Size of Soaps and Other Detergents²
 - D 460 Test Methods for Sampling and Chemical Analysis of Soaps and Soap Products²

3. Ordering Information

3.1 Type A and Type B scrubbing soap shall be purchased by net weight.

4. General Requirements

4.1 The scrubbing soap shall be a uniform mixture of a thoroughly saponified soda soap or potash soap or a mixture of the two, and a finely divided water-insoluble mineral abrasive such as lava, pumice, and volcanic ash and not including sand or quartz. The soap shall be perfumed or unperfumed, as specified. The soap shall lather freely in soft, cold water.

4.1.1 *Type A*—Type A scrubbing soap shall be in paste form and shall conform to the chemical and fineness requirements of Table 1. It shall be formulated so as to retain

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² *Annual Book of ASTM Standards*, Vol 15.04.

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TABLE 1 Chemical and Physical Requirements

	Type A		Type B	
	min	max	min	max
Matter volatile at 105°C, %	...	55.0	...	25.0
Alkaline salts (calculated as sodium carbonate), %	...	3.0	...	1.0
Free alkali (calculated as sodium hydroxide), %	...	0.1	...	0.1
Free fatty acid (calculated as oleic acid), %	...	0.5	...	0.5
Anhydrous soda soap, %	8.0	...	35.0	...
Matter insoluble in water, %	25.0	50.0	22.0	35.0
Acid number of mixed fatty acids derived from the soap	212	...	212	...
Fineness of insoluble material, percent retained on:				
No. 40 sieve	...	1.0
No. 60 sieve	10.0	20.0
No. 80 sieve	30.0	45.0	...	nil
No. 100 sieve	35.0	55.0	...	10.0
No. 200 sieve	60.0	...	10.0	...

its original paste consistency and to be stable (no separation of its components) when stored for 6 months under conditions where the temperature is in the range from 50 to 100°F (10 to 37.8°C).

4.1.2 *Type B*—Type B scrubbing soap shall be in bar form of firm consistency, uniform in texture and color, and shall conform to the chemical composition and fineness requirements of Table 1.

5. Methods of Sampling and Analysis

5.1 Sample and analyze the scrubbing soap 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.

5.2 Make the sieve analysis in accordance with Test Method D 502.

6. Keyword

6.1 grit soap