



Designation: D 2356 – 88 (Reapproved 1994)

Standard Specification for Phosphate and Silica Containing Scouring Powder Compounds¹

This standard is issued under the fixed designation D 2356; 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 (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This specification covers scouring powder compounds for the cleaning of porcelain surfaces (vitreous types), painted surfaces, floors, marble and for general kitchen use.

2. Referenced Documents

2.1 ASTM Standards:

- D 460 Test Methods for Sampling and Chemical Analysis of Soaps and Soap Products²
- D 502 Test Method for Particle Size of Soaps and Other Detergents²
- D 820 Test Methods for Chemical Analysis of Soaps Containing Synthetic Detergents²
- D 1681 Test Method for Synthetic Anionic Active Ingredient in Detergents by Cationic Titration Procedure²
- D 2022 Test Methods for Sampling and Chemical Analysis of Chlorine-Containing Bleaches²

3. General Requirements

3.1 Scouring compound shall be a free-flowing powder, white or of an attractive pleasing color, scented or unscented, and of uniform composition. It shall be furnished in two types:

- 3.1.1 *Type I*—With chlorine bleaching agent.
- 3.1.2 *Type II*—Without any bleaching agent.

4. Chemical Requirements

4.1 Scouring powder compound shall conform to the requirements covering chemical composition prescribed in Table 1.

¹ 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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² *Annual Book of ASTM Standards*, Vol 15.04.

TABLE 1 Chemical Requirements

	Type I	Type II
Matter volatile at 105 ± 2°C, max, %	11.0	11.0
Anhydrous synthetic detergent (salt-free), %: ^A		
max	7.0	7.0
min	1.7	1.7
Phosphates calculated as P ₂ O ₅ , min, %: ^B	1.1	1.1
Free alkali as NaOH, max, %	0.1	0.1
Matter insoluble in water (siliceous), %:		
max	95	95
min	60	60
Available chlorine as Cl, min, %	0.3	...

^A Soap shall not be present.

^B The phosphates may consist of trisodium phosphate, anhydrous, monohydrate or dodecahydrate; tetrasodium pyrophosphate; or sodium tripolyphosphate.

TABLE 2 Fineness of Insoluble Siliceous Matter

	Max, %	
	Type I	Type II
<i>Retained on:</i>		
No. 60 (250- μ m) sieve	0.1	0.1
†No. 100 (150- μ m) sieve	0.5	0.5
No. 200 (75- μ m) sieve	10.0	10.0
<i>Through:</i>		
No. 325 (45- μ m) sieve	85.0	85.0

5. Fineness of Abrasive

5.1 The fineness of the abrasive shall conform with the requirements prescribed in Table 2.

6. Basis of Purchase

6.1 Scouring powder compounds shall be purchased by net weight.

7. Methods of Sampling and Analysis

7.1 The material shall be sampled and analyzed in accordance with the following test methods: D 460, D 502, D 820, D 1681, and D 2022.

7.2 The purchaser reserves the right to use any additional available information to ascertain whether the material conforms to this specification.

† Editorially corrected.