

FEDERAL SPECIFICATION

SOAP, GRIT (PASTE WITH MINERAL SCURBBER, AND
POWDER WITH VEGETABLE SCRUBBER)

This amendment which forms a part of Federal Specification P-S-577C dated November 29, 1974, was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

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2.1 Under Federal Standards Add "Federal Test Method No. 536/1701 - Sugars (Qualitative)" and "Federal Test Method No. 536/2101 - Sieve Tests"

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3.2.3 Add after last sentence "The manufacturer shall provide a chemical analysis of the lot to show presence of the organic oxidation inhibitor."

Add in sequence new paragraph 3.2.5:

3.2.5 Quality assurance samples. For type III grit soap, the manufacturer shall notify the quality assurance specialist so that each individual component used in the batch can be sampled. A sample of the lanolin used in the batch should be obtained uncombined with any other ingredient

Delete paragraphs 3.7, 3.7.1 and 3.7.2 and substitute the following

3.7 Shelf life (type III). The type III grit soap shall not turn rancid or become infested with insects when stored in unopened and undamaged shipping containers for a period of six months under general warehouse conditions.

3.8 Line 2 Add "Type III grit soap shall be free of insect eggs, larva or adults."

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3.10 Delete entirely and substitute the following.

3.10 Warranty. The manufacturer shall provide a warranty that the type III grit soap meets the shelf life requirements of 3.7.

Delete paragraphs 4.1.1 and 4.2.1.1.

4.2.1.2 Line 7 Delete "defects per hundred units" and substitute "percent defective."

4.2.1.3 Line 4 Delete "defects per hundred units" and substitute "percent defective."

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Table IV Under "Results reported", delete "average of two determinations" and substitute "individual results of two determinations."

Under Requirements, delete "3.3" in lines 1 thru 10 and substitute "table I"

Under Requirement for "suds volume", delete "3.5" and substitute "3.4".

Under Requirement for "pH and buffer capacity" delete "3.6" and substitute "3.5".

Under Test method for "rosin" delete "D 460 #370-40" and substitute "4.3.8"

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4.3.2.1 Line 2 Delete "4.2 2.3" and substitute "3.2.5". Delete last sentence.

4.3.2.2 Delete first sentence and substitute. "Place 0.2 gram of anhydrous USP lanolin into a tared 50-ml beaker and weigh to the nearest mg." Delete last sentence.

4.3.2.3 1 Delete first sentence and substitute "Place 10 grams of the well mixed soap into a tared Soxhlet extraction thimble and weigh to the nearest mg. Extract with petroleum ether in a Soxhlet apparatus for 3 hours."

4.3.2.3.3 Line 1 Delete "accurately weighed".

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4.3.3 Line 2 Delete "250 ml cylinder" and substitute "250-ml graduated cylinder".

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4.3.7 Lines 2 and 3 Delete last sentence and substitute "For type III grit soap perform the test on the sample of the soap used in the batch. If the soap is not available, filter the vegetable scrubber from a mixture of the grit soap in hot (55-60°C) methanol. Evaporate the methanol, dissolve the dried soap in distilled water, and proceed with paragraph 2.1 in Test Method 1701."

Add in sequence new paragraph 4.3.8

4.3.8 Qualitative test for rosin (Liebermann-Storch). Transfer 1 to 2 milliliters of the fatty acids prepared in section 42 of ASTM Standard D 460 to a test tube, treat with 5 to 10 milliliters of reagent grade acetic anhydride, and warm on a steam bath until fatty acids are dissolved. Cool to room temperature. After cooling, pour 1 to 2 milliliters into a white porcelain dish and allow a drop or two of sulfuric acid (sp. gr. 1.53) to run down the side of the vessel. (Sulfuric acid of sp. gr. 1.53 may be prepared by adding 34.7 ml of concentrated sulfuric acid (sp. gr. 1.84) to 35.7 ml of distilled water.) If rosin is present, a fugitive violet coloration changing to a brownish tinge is immediately produced at the margin of contact of the reagents. This test can be made on a small sample on a spot plate. The tests should be checked with a sample of pure stearic acid to which about 3 percent of rosin has been added.

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