

MIL-B-550A
AMENDMENT 1 (MU)
3 March 1967

INTERIM AMENDMENT
MILITARY SPECIFICATION
BARIUM CHROMATE

This Interim Amendment is issued for use by the U.S. Army Munitions Command with Military Specification MIL-B-550A dated 25 September 1958.

Page 1, paragraph 1.2 Classification. - Add a new Grade: "Grade C".

Page 1, paragraph 2.1, under STANDARDS. - Add the following:

"MIL-STD-1233 Procedures for Determining Particle Size.
Particle Size Distribution and Packing Density
of Powdered Materials.

Page 2, paragraph 3.1, Table I. - Add a new grade as follows:

	Grade C	
	min.	max
Volatile matter, percent	...	0.10
Barium Chromate, percent	98.5	...
Chlorides (as Cl), percent	...	0.05
Water soluble matter, percent	...	0.05
Moisture reabsorption, percent
Apparent density gm/gl	0.35	0.50
Granulation, percent:		
Through 199-micron (No. 100) sieve
Through 74 -micron (no. 200) sieve
Through 44 - micron (No. 325) sieve	100	...
Average particle diameter (microns)	0.50	1.50
Sulfate, percent (Test para 4.3.9)	...	0.04

Page 5, paragraph 4.3.8 Particle size. - Delete in its entirety and substitute the following:

"4.3.8 Particle size. The particle size shall be determined in accordance with Method 100 of Standard MIL-STD-1233."

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Page 5. - Add new paragraph as follows:

"4.3.9 Sulfate. Dissolve a 10 gm sample in 150 ml of water and 30 ml of HCl. Filter through Whatman No. 42 paper or equivalent, washing with HCl (1 + 20), then water. Ignite paper and residue in a platinum crucible; then fuse with 5 gm of sodium carbonate. Dissolve the melt in water and filter. Make filtrate acid with HCl and add 25 ml of BaCl₂ solution (10 percent) and let stand overnight. Filter through Whatman No. 42 paper or equivalent, washing with water. Ignite paper and precipitate in a weighed crucible at 1000 °C, cool and reweigh as BaSO₄.

$$\text{Percent sulfate} = \frac{0.4114 \times \text{wt of BaSO}_4 \times 100}{\text{wt of sample}}$$

Custodian:
Army - MU

Preparing Activity:
Army - MU

Project No. 6810-A151