



Arm & Hammer™ Sodium Bicarbonate Treated No. 1 Powdered with Tricalcium Phosphate Added (Grade 1 TFF)

Effective: Feb. 1, 2023	Test Method	
Description	-	A mixture of Sodium Bicarbonate USP No. 1 with Tricalcium Phosphate flow aid
Assay – dry basis	USP	Not less than 98.5% and not more than 100.3% of NaHCO ₃
Identification	USP <191>	Meets the requirements of the tests for sodium and bicarbonate.
Normal Carbonate	USP	Meets test.
Chloride	USP <221>	Not more than 0.015%
Limit of Sulfur Compounds	USP	Not more than 0.015%
Elemental Impurities*	ICP	
Cadmium		Not more than 0.5 µg/g
Lead		Not more than 0.5 µg/g
Arsenic		Not more than 1.5 µg/g
Mercury		Not more than 1 µg/g
Limit of Ammonia	NA - See remarks	Not more than 20 ppm
Loss on Drying	USP <731>	Not more than 0.25%
Non-USP Requirement		
Tricalcium Phosphate	C&D	0.2 – 0.5%
<p>Ammonia is not used in the manufacturing process for Church & Dwight Sodium bicarbonate. Controlled handling and storage of the product ensure that ammonia will not exceed the USP limit.</p> <p>*Elemental Impurities (replaces Heavy Metals <231>) Limits based on USP <232> Table 3, Oral Drug Products. Residual Solvents testing under USP <467> is not required as no solvents, and specifically no solvents of Class 1, 2, 3 or Table 4 as defined in <467>, are used in the manufacture or purification of Church & Dwight Sodium Bicarbonate.</p>		

Granulation (Powdered)

Sieve Size (USS)	Microns	Ro-Tap Cumulative % Retained	
		Minimum	Maximum
100	149	0	2
200	74	20	45
325	44	60	100