Specification

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

Reviewed: January 24, 2026, MM	
Definition	A mixture of Sodium Bicarbonate USP No. 1 with Tricalcium Phosphate flow aid.

Analysis		
Description	**Test Method**	**Specification**
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 0.3 µg/g
Lead		Not more than 0.3 µg/g
Arsenic		Not more than 0.9 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%
Flow Aid (Tricalcium Phosphate)	C&D	0.2 – 0.5%

Ammonia is not used in the manufacturing process for Church & Dwight Sodium Bicarbonate. Limit of Ammonia is based on risk analysis and in-process controls. Controlled handling and storage of the product ensures that ammonia will not exceed the USP limit.

*Elemental Impurities (replaces Heavy Metals <231>) Limits based on USP <232> Table 3, Oral Drug Products. Determined by ICP, C&D Method TM*74505 for Elemental Impurities.

Residual Solvents testing under USP <467> is not required as no solvents, and specifically no solvents of Class 1, 2, or 3 as defined in <467>, are used in the manufacture or purification of Church & Dwight Sodium Bicarbonate.

Granulation (Powdered)

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