



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

| Effective: Feb. 1, 2020 | 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% |
| Ammonia is not used in the manufacturing process for Church & Dwight Sodium bicarbonate. Controlled handling and storage of the product insure that ammonia will not exceed the USP limit. Absence of ammonia is confirmed on each lot via olfactory test. | | |
| *Elemental Impurities (replaces Heavy Metals <231>) Limits based on USP <232> Table 2, Oral Drug Products. The remaining Table 2 elements are not known or expected impurities. | | |
| 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. | | |

Granulation (Powdered)

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