Specification

Arm & Hammer™ Flow K™ Potassium Bicarbonate

Reviewed: January 26, 2026, MM	
Definition	Flow K® Potassium Bicarbonate is a food grade product comprised of potassium bicarbonate USP and a small amount of magnesium oxide USP flow aid is included to maintain handling characteristics.

Analysis		
Description	**Test Method**	**USP**
Assay – dry basis	USP	98.75 – 101.0% (as KHCO3)
Identification	USP	Responds to the test for potassium.
Flow Aid	C&DTM009465	0.5 – 0.75% (as MgO)
Remarks		
Flow K® Potassium Bicarbonate is a food grade product comprised of potassium bicarbonate USP and a small amount of magnesium oxide USP flow aid is included to maintain handling characteristics. No solvents are used in the Church & Dwight Co., Inc. Flow K® Potassium Bicarbonate manufacturing process. Further, based our knowledge of the raw materials, manufacturing process and procedures, and subsequent controlled handling and storage of the potassium bicarbonate, there is no potential for residual solvents to be present. Properly stored, Church & Dwight Co., Inc. Flow K® Potassium Bicarbonate is shelf stable for at least 3 years.		

General Properties (Not Specifications)

Appearance	White crystalline powder
Taste	Slightly salty.
Thermal Decomposition	Decomposes without melting into K2CO3, CO2, H2O
Bulk Density	65 lb / ft.3
Solubility in water	Complete except for flow aid
Solubility in alcohol	Insoluble
Alkali Equivalent	1 lb. Flow K® = 0.470 lb K2O
Acid Equivalent	1 lb. Flow K® = 0.365 lb HCl
Carbon Dioxide Equivalent	1 lb. Flow K® = 0.440 lb CO2
pH 1% aqueous soln at 77°F	Approximately 8.3

Granulation (Typical, Not Specifications)

		Ro-Tap % Fraction Retained
Sieve Size (USS)	Microns	
40	420	1
80	177	50
100	149	20