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POTASSIUM CARBONATE DRY PRODUCT

TECHNICAL INFORMATION

General Properties of ARMAND PRODUCTS Brand Potassium Carbonate

Empirical Formula	K_2CO_3
CAS Number	584 - 08 - 7
Molecular Weight	138.21
Fire and Explosion Data	Not combustible No flash point

Dry Product Properties

Melting Point Granular	1636°F (891°C)
Specific Gravity	2.428, Solid ingot at 66°F (19°C)
Bulk Density - regular, glass, fine - extra fine	75 - 85 lb./cu. ft. approx. 37 lb./cu. ft.
Alkali Equivalent 100% K_2CO_3	68.16% K_2O
Acid to Neutralize 1 lb. K_2CO_3	0.528 lb. pure HCl
Solubility (quantity that dissolves in 100 grams of water)	112 grams (52.8% by weight) K_2CO_3 at 68°F (20°C) 156 grams (60.9% by weight) K_2CO_3 at 212°F (100°C)
Hygroscopicity (affinity for moisture)	Regular, glass and fine grades are mildly hygroscopic. Milled, extra fine grade is significantly more hygroscopic.
Approximate Particle Distribution	
Regular Grade	- 18 mesh to + 80 mesh
Glass Grade	- 26 mesh to + 80 mesh
Fine Grade	- 40 mesh to + 80 mesh
Extra Fine Grade	80% through 325 mesh

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