

PRODUCT DATA SHEET - SPECIALTY FERTILIZERS

POTASSIUM SULFATE

Soluble Grade - Crystallized

CAS N° 7778 - 80 - 5

GENERAL DESCRIPTION	
CHEMICAL FORMULA	K ₂ SO ₄
APPEARANCE	Crystalline White Powder

CHEMICAL SPECIFICATIONS GUARANTEED	
POTASSIUM (measured as) K ₂ O	% 52 min
SULFATE (measured as) SO ₄	% 53 min
(calculated as) S	% 18 min
CHLORIDE Cl	% 1.0 max
INSOLUBLES	% 0.1 max

CHEMICAL SPECIFICATIONS TYPICAL	
POTASSIUM (measured as) K ₂ O	% 53.3
SULFATE (measured as) SO ₄	% 54.7
(calculated as) S	% 18.3
CHLORIDE	% 0.7
INSOLUBLES	% 0.05
MAGNESIUM Mg	% 0.2
CALCIUM Ca	% 0.2
WEIGHT LOSS (1hr @ 60°C) H ₂ O	% 0.16
pH (1% w/v solution)	4.5
ARSENIC As	ppm < 5
CADMIUM Cd	ppm < 2
CHROMIUM (*) Cr	ppm < 2
LEAD Pb	ppm < 5
MERCURY Hg	ppm < 0.5

(*) Total Cr: Includes Cr hexavalent (Cr⁶⁺)

TYPICAL SIEVE ANALYSIS (CUMULATIVE %)			
US Standard Sieve	Tyler	mm	
+35	+32	0.50	4%
+45	+42	0.36	8%
+60	+60	0.25	32%
+80	+80	0.18	56%
+100	+100	0.15	64%
+120	+115	0.12	76%
+200	+200	0.08	94%

PHYSICAL PROPERTIES	
SOLUBILITY	in water at 20°C / 68°F ~12.4 g/100 cm ³
DENSITY (Bulk)	Loose Pour / Free Fall 1.16 ton (metric) / m ³
	Tapped 1.32 ton (metric) / m ³
ANGLE OF REPOSE	37°

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