



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

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
	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°