PRODUCT DATA SHEET - SPECIALTY FERTILIZERS

POTASSIUM NITRATE

Fertigation Grade - Crystallized

CAS N° 7757- 79 - 1 (Contains an Anticaking Agent)

GENERAL DESCRIPTION	
CHEMICAL FORMULA	KNO_3
APPEARANCE	White Crystals

CHEMICAL SPECIFICATIONS GUARANTEED				
PURITY	as KNO_3		99.0	min
NITROGEN (100% NITRATE)	N	%	13.7	min
POTASSIUM	as K_2O	%	46	min
CHLORIDE	Cl	%	0.2	max

CHEMICAL SPECIFICATIONS TYPICAL			
NITROGEN (100% NITRATE)	N	%	13.8
POTASSIUM	as K_2O	%	46.3
SODIUM	Na	%	0.1
MAGNESIUM	Mg	%	< 0.11
CALCIUM	Ca	%	< 0.05
SULFATE	SO_4	%	< 0.25
BORON	B	%	< 0.02
IODATE	IO_3	%	< 0.01
PERCHLORATE	ClO_4	%	< 0.005
INSOLUBLES		%	< 0.05

TYPICAL SIEVE ANALYSIS (CUMULATIVE %)			
US Standard Sieve	Tyler	mm	
+35	+32	0.50	14%
+45	+42	0.36	24%
+60	+60	0.25	54%
+100	+100	0.15	89%
+200	+200	0.08	97%

PHYSICAL PROPERTIES	
MELTING POINT	≈333 °C
SOLUBILITY (in water at 20 °C)	≈ 30 g/ 100 cm^3
DENSITY (Bulk)	1.14 ton (metric) /m^3
ANGLE OF REPOSE	34 °
ELECTRIC CONDUCTIVITY (1 g/L solution at 20°C)	1.30 mS/cm
SPECIFIC GRAVITY	2.110

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