

**Technical data sheet**

FM #: FM lab 49

Rev: A/(Related to Handbook revision 4)

**STANDARD POTASSIUM NITRATE "Kemapco" - (NOP) 13-0-46**

**TECHNICAL SPECIFICATION**

**1. TYPICAL ANALYSIS :**

Jordan Quality Mark Certificate No. JQM121201

CHARATERISTICS	UNIT	TYPICAL	GUARANTEED
Purity KNO <sub>3</sub>	w/w %	99	99
K	w/w %	38.3	min 37.6
K <sub>2</sub> O	w/w %	46.2	min 45.3
N	w/w %	13.7	min 13.0
Cl	w/w %	0.05	max 0.2
Na	w/w %	0.05	max 0.15
Ca	w/w %	0.05	max 0.2
P	w/w %	0.01	max 0.03
Perchlorate	ppm	<0.1	max 0.1
Hypochlorite	ppm	ND	
Nitrite	ppm	ND	
Heavy metals	ppm	< 10	< 10
Cd	w/w %	< 0.0002	max 0.0002
Pb	w/w %	< 0.0005	max 0.0005
Water insolubles	w/w %	0.01	max 0.05
Anticaking agent	w/w %	0.1-0.15	max 0.15
Bulk density loose	t / m <sup>3</sup>	1.00 - 1.19	max 1.2
pH		6.0-8.0	max 9

SIEVE ANALYSIS	µm	CUMULATIVE w / w %
	650	10
	350	50
	170	90
	130	95
	80	99

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**2. ANALYTICAL METHODS :**

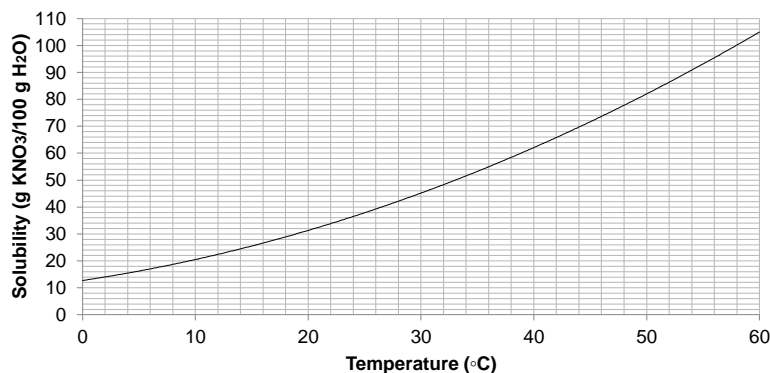
<b>CHARACTERISTICS :</b>	<b>METHODS :</b>
K	ASTM 2011 vol 11.01 D4192-08
N	Standard method for the Examination water & waste water 21st edition (4 – 120)
Cl	A ASTM 2011, vol 11.01, D512-10
Na	AOAC 2005, 18th Edition, method 974.01 ch 2 page 39 ( 2.6.26 )
Ca	AOAC 2005, 18th Edition, Method 965.09 ch 2, p 29
P	AOAC 2005, 18th Edition, Method 958.01, Chapter 2, p.6
Heavy metals	ASTM 2011 vol 11.01 D3557-02-D, D3559-08-D
Humidity	AOAC 2005, 18th Edition, Method 950.01, Chapter 2, p.4
Water insolubles	AOAC 2005, 18th Edition, Method 925.55 - C
Anticaking agent	UV spectrophotometry determination 284 nm

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**3. GENERAL PROPERTIES :**

Form:	<b>Crystalline Powder</b>	
Colour:	<b>White.</b>	
Solid Density:	<b>2.1</b>	t / m <sup>3</sup>
Melting Point:	<b>333</b>	° C
Decomposition Point:	<b>Approx. 400</b>	° C
Specific Heat, 25 °C:	<b>0.22</b>	Cal / g . ° C
Heat of Fusion:	<b>28</b>	Kcal / kg
Heat of Dissolution:	<b>-85</b>	Kcal / kg
Solubility limit at 20°C:	<b>317</b>	g KNO <sub>3</sub> / L H <sub>2</sub> O
Solubility curve g KNO <sub>3</sub> /100 gH <sub>2</sub> O :		



**4 . PACKING / STORAGE :**

1200 Kg, 1000 Kg, 500 Kg, or 25 kg bags.  
1000 kg net shrink-wrapped pallet.  
Potassium Nitrate is a hygroscopic product sensitive to moisture and big temperature variations. In order to avoid any risk of caking or product deterioration, Potassium Nitrate must only be stored in a dry, ventilated and covered area.

**5. USES :**

Direct application, NPK and NK granulation or ammoniation, NPK and NK bulk blending, liquid and suspension fertilizers, fertigation (sprinkler, mini sprinklers and drip irrigation), foliar sprays, foliar NPK fertilizers, starter and transplant solutions, winter hardener, winter breaking dormancy sprays, flowering inducement sprays.

**6 . CROPS :**

Flowers, vegetables, strawberries, potted plants, soilless culture, (in door and out door), tobacco, potatoes, fruit trees, grapes, citrus, pineapples, cotton, bananas, mango, olives, home gardens, lawns.

**7 . PRODUCTION SITE :**

Arab Fertilizers & Chemicals Industries Ltd.  
(KEMAPCO®)  
P.O.BOX 2564 Aqaba 77110 Jordan  
TEL.: +96232017174  
FAX: +96232017181  
E-mail : kemapco@kemapco.com.jo

COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001:2015 =

