

**NPK 13-5-42**

**TECHNICAL SPECIFICATION**

**1. TYPICAL ANALYSIS :**

<b>CHARATERISTICS :</b>	<b>UNIT :</b>	<b>TYPICAL :</b>	<b>GUARANTEED</b>
Purity of NPK	w/w %	99	99
K	w/w %	34.97	min 33.57
K <sub>2</sub> O	w/w %	42.2	min 40.48
N	w/w %	13.53	min 12.99
P	w/w %	2.19	max 2.27
P <sub>2</sub> O <sub>5</sub>	w/w %	5.02	max 5.2
Na	w/w %	0.05	max 0.15
Ca	w/w %	0.05	max 0.2
Cl	w/w %	0.05	max 0.2
Perchlorate	ppm	<0.1	
Hypochlorite	ppm	ND	
Nitrite	ppm	ND	
Heavy metals	ppm	< 10	< 10
Cd	ppm	< 2	max 2
Pb	ppm	< 5	max 5
Hg	ppm	<0.1	max 0.1
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		4.0-6.0	max 7

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

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**2. ANALYTICAL METHODS :**

CHARACTERISTICS :	METHODS :
K	ASTM 2011 vol 11.01 D4192-08
N	Standard method for the Examination water & waste water 21st edition (4 – 120)
Cl	AASTM 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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### **4 . PACKING / STORAGE :**

1200 Kg, 1000 Kg, or 25 kg bags.  
1000 kg net shrink-wrapped pallet.

NPK 13-5-42 is a hygroscopic product sensitive to moisture and big temperature variations.  
In order to avoid any risk of caking or product deterioration, NPK 13-5-42 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 :**

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