

PRODUCT DATA SHEET

POTASSIUM NITRATE SOLAR GRADE NPK 13 0 46		LATEST REVISION DATE 24.September 2020	VERSION 1
1. PRODUCT IDENTIFICATION			
Product name	Potassium Nitrate 13 0 46		
Chemical Formula Molecular Weight	KNO ₃ 101.102		
2. PHYSICAL PROPERTIES			
Physical state, form and colour	White hygroscopic crystals		
Bulk density kg /m ³	Crystals 1100		
Melting point	334 °C (607.15 K)		
Solubility in water	31 kg/100 kg in water at 20 °C (293.15 K)		
3. CHEMICAL PROPERTIES			
Guaranteed	Crystals		
Potassium Nitrate (as KNO ₃)*	99.5 % min		
Chlorine (Cl)	0.10 % max		
Typical			
Chlorine (Cl)	0.10 % max		
Sulphates (as SO ₄)	0.05 % max		
Carbonates (as CO ₃)	0.02 % max		
Hydroxil (OH)	0.05 % max		
Perchlorate (as ClO ₄)	0.01 % max		
Magnesium (Mg)	0.01 % max		
Moisture (105 °C) (as H ₂ O)	0.10 % max		
* Purity corresponds to N content expressed as KNO ₃ Moisture is measured at ACF production site			
4. TYPICAL SIZE DISTRIBUTION			
Crystals			
mm	U.S. mesh	% on sieve	
1.000	+16	1.19	
0.500	+32	25.55	
0.354	+42	41.45	
0.250	+60	67.85	
0.177	+80	85.85	
0.125	+115	96.60	
0.088	+170	99.39	

5. PACKAGING

25kg net in PE bag. Top open mouth. Thermo fused closure at the top

25 kg net in PP outer bag and PE inner bag. Top open mouth

50kg net in PP outer bag and PE inner bag. Top open mouth. Only special customer request

1000kg net in maxi bags. Outer bag: woven PP and inner bag: PE. Only special customer request

6. HANDLING AND STORAGE

Keep in a tightly closed container. Store in a cool, dry, ventilated and low fire risk area, away from sources of heat or ignition.

Protect the container against physical damage. Store separately from combustible and reducing materials

7. TRANSPORT INFORMATION

Description	Potassium Nitrate
CAS N°	7757-979-1
UN identification number	UN 1486
Hazard class or Division	5.1
PG (Packing Group, UN)	III

8. ANTI CAKING AGENT

Galoryl - Rate is 2.5kg per Metric Tonne

ACA is added as standard and can be supplied without on request.