UKNITRATES

Potassium Nitrate
KNO3

Properties

White and hygroscopic Crystals or Prills
Bulk density: Crystals 1100 kg/m3 Prills 1200 kg/m3
Melting Point 334C (607,15K)
Solubility in water KNO3 31 kg/100 kg water at 20C (293,15 K)

Chemical Analysis

Purity	Crystals	Prills
Potassium Nitrate (KNO3)	97.6% min	97.6% min
Potassium (K)	38.5% min	38.5% min
Nitrate (NO3)	60.1% min	60.1% min
Sodium (as Na+)	0.35% min	0.35% min
Magnesium (as Mg+2)	0.15% max	0.15% max
Calcium (as Ca+2)	0.18% max	0.18% max
Total Chloride (como Cl-)	0.50% max	0.50% max
Sulphates (as SO =4)	0.06% max	0.06% max
Nitrites (as NO -2)	0.02% max	0.02% max
Carbonates (as CO =3)	0.00% max	0.00% max
Borates (as B4O =)	0.02% max	0.02% max
Boric Acid (as H3BO3)	0.10% max	0.10% max
Humidity (as H2O)	0.10% max	0.05% max
Insolubles	0.05% max	0.05% max

Typical Size Distribution

Crystals mm	U.S. mesh	% acumulado
1000	+16	2.5
0,500	+32	14.9
0,354	+42	33.4
0,250	+60	65.0
0,177	+80	86.9
0,125	+115	95.9
0,088	+170	99.5

Prills mm	U.S. mesh	% acumulado
3,360	+6	2.3
2,380	+8	25.2
1,680	+10	72.2
1,190	+14	98.7
1,000	+16	99.6

Packs, Storage, Transportation

Pack Sizes

25 kg net in PP outer bag and PE inner bag, top open mouth.
50 kg net in PP outer bag and PE inner bag top open mouth.
1000kg net in maxi bags. Outer bag: woven PP and inner bag: PE, by request only

Storage

Keep in a tightly closed container. Store in a cool, dry, ventilated and low fire risk area, away from sources of heat or Protect the container against physical damage.
Store separately from combustible and reducing materials

Usable Life

36 months from date of production in original sealed packages

Safety Precautions

When using the product do not eat, drink or smoke, abide by the personal hygiene rules.

Transport Information

CAS No. 7757-79-1
UN Identification No. ONU 1486
Hazard Class 5.1
PG (Packing Group, UN) III

Rollesby Road, Hardwick Trading Estate,
King's Lynn, Norfolk, PE30 4JS

info@uknitrates.com
+44 (0)1553 817744