



A unique and broad
portfolio of **fully water
soluble straight fertilizers**

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ICL Specialty
Fertilizers

Index

A new range of fully water soluble straight fertilizers	3
Nova PeaK – Mono Potassium Phosphate 0-52-34	4
Nova MAP – Mono Ammonium Phosphate 12-61-0	4
Nova PeKacid – Soluble acidic PK fertilizer - 0-60-20	5
Nova Potassium – Soluble fertilizer for fertigation – 5-0-49+21SO₃	6
Nova Ferti-K – Muriate of Potash – 0-0-61	6
Nova MagPhos – Soluble PK plus Mg fertilizer - 0-55-18+7MgO	7
Nova Quick-Mg –Soluble Potassium and Magnesium 0-0-15+13MgO	7
Nova N-K – Potassium Nitrate – 13.5-0-46	8
Nova Calcium – Calcium Nitrate – 15.5-0-0+26.5CaO	9
Nova SOP –Sulphate of Potash– 0-0-50 +46SO₃	10
Nova Mag-S – Magnesium Sulphate – 0-0-0+16MgO+32SO₃	10
Breakdown table	11
Mixability list	11



A complete portfolio of fully water soluble straight fertilizers

The new portfolio of fully water soluble straight fertilizers, especially selected and produced for professionals in fertigation and foliar application.

The Nova specialty fertilizers are of unrivaled quality and are highly soluble. They can be mixed with other straight fertilizer products or compound water-soluble fertigation fertilizers such as Agrolution pHLow, Agrolution Special, Solinure GT, and Solinure FX fertilizers.

Pure and clean fertilizers are needed to safely grow vegetables and other crops. Some specific growth conditions may require specific recommendations which can easily be achieved by using the new range of straight fertilizers.

Benefits

- 1 Broad, complementary portfolio of straight fertilizers
- 2 Highly-concentrated soluble fertilizers
- 3 High purity
- 4 Low salt index
- 5 Consistent quality

Item Number	Brand Name	Product name	Analysis (%)
2487	Nova Calcium	Calcium Nitrate	15.5-0-0+26.5 CaO
2850	Nova MagPhos	Soluble PK plus Mg fertilizer	0-55-18+7MgO
2851	Nova Peak	Mono Potassium Phosphate	0-52-34
2852	Nova MAP	Mono Ammonium Phosphate	12-61-0
2853	Nova Ferti-K	Muriate of Potash	0-0-61
2854	Nova Quick-Mg	Soluble Potassium and Magnesium	0-0-15+13MgO
2856	Nova PeKacid	Soluble acidic PK fertilizer	0-60-20
2857	Nova Mag-S	Magnesium Sulphate	0-0-0+16MgO+32SO ₃
2858	Nova N-K	Potassium Nitrate	13.5-0-46
2859	Nova Potassium	Soluble fertilizer for fertigation	5-0-49+21SO ₃
2860	Nova SOP	Sulphate of Potash	0-0-50+46SO ₃

Nova PeaK®



Guaranteed analysis:
52% PHOSPHORUS PENTOXID
(P_2O_5) water soluble
34% POTASSIUM OXIDE (K_2O),
water soluble

**Recommended dilution
rate, for stock solutions:**

15 kg / 100 liter water

*for more specific recommendations please
contact ICL SF or your local distributor!

MKP - Monopotassium phosphate, the most concentrated straight fertilizer containing Phosphorus

**Nova PeaK 0-52-34, monopotassium phosphate, is produced by ICL Specialty
Fertilizers, the largest manufacturer of MKP worldwide.**

Made with an exclusive proprietary technology and to ensure maximum quality, Nova PeaK is a high purity product, totally soluble in water and fast dissolving. It is the most concentrated straight fertilizer containing Phosphorus. With its low salt index, Nova PeaK is recommended for use in any type of crop and fertigation system: drip irrigation, hydroponics, sprinkles, pivots, or foliar spray.

Directions for use

Nova PeaK is one of the most used straight fertilizers in tailor made crop recommendations.

The high content level of Phosphorus and Potassium makes the product very flexible to be used in hydroponics matching easily the plant's needs for these nutrients.

Recommended in hydroponics

Benefits

- 1 Nova PeaK has a very low salt index and is free of Chlorine, Sodium and impurities. It is very safe for foliar applications or sprinkler irrigation without risk of causing phytotoxicity or burns leaves
- 2 Nova PeaK exerts a buffering effect which tends to stabilize the pH of the nutritive solutions
- 3 The absence of Nitrogen in Nova PeaK permits application of the most appropriate ratio of P:K for different stages: rooting, flowering, fruit set or ripening and harvest, stages where lower level of Nitrogen is required

Nova MAP



The ideal starter fertilizer

**Nova MAP 12-61-0, mono-ammonium
phosphate is ideal for use in the initial
growth phase of all crops, immediately
before and after seeding and planting.**

Nova MAP is a crystalline powder, free of chloride and sodium. It is the ideal fertilizer for increasing the availability of soil-phosphorus, especially in calcareous soils.

Nova MAP can be used in fertigation on most crops, in all growing stages. It can be used especially in the early stages of plant growth to promote optimal development of the root system as well at the stages of flowering and fruit formation.

Benefits

- 1 Highly efficient source of phosphorus as phosphate ($H_2PO_4^-$) which promote rapid absorption by the plant.
- 2 Acidifying effect on the soil favoring solubility of phosphorus and micronutrients
- 3 Freely soluble and quickly dissolving
- 4 High purity, no residue or contaminants

Guaranteed analysis:

12% TOTAL NITROGEN (N)
12% Ammonium nitrogen ($N-NH_4$), water
soluble
61% PHOSPHORUS PENTOXID (P_2O_5), water
soluble

**Recommended dilution rate, for stock
solutions:**

15 kg / 100 liter water

*for more specific recommendations please contact ICL SF or your local distributor!

Nova PeKacid

Solid phosphoric acid

Nova PeKacid®

Nova PeKacid 0-60-20 is ICL SF' patented water-soluble PK fertilizer which is ideal for open-field and soilless crops. The product can be successfully used in hard water conditions.

Nova PeKacid is a solid phosphoric acid in dry form, combining the advantages and efficiency of phosphoric acid with the ease and safety of a solid crystalline fertilizer. This white fertilizer is sodium-free and chloride-free, and extremely soluble at

670 g/liter of water (at 20 °C). Due to its high acidity it helps keep drippers clean. Furthermore, its high acidity means it can be tank-mixed with Calcium and Magnesium carriers despite containing high levels of Phosphorus.



Directions for use

Suitable for fertigation. Beside the nutrients supply, its acidifying effect will prevent clogging in the fertigation lines and regulates the pH level in soil solution for better nutrients uptake.

Benefits

- 1 High P and K analysis
- 2 100% water-soluble
- 3 High solubility (670 g/liter water at 20 °C)
- 4 Strong acidifying power (240 grams of PeKacid will redact 61 g/liter of HCO_3^-)
- 5 Free of chloride and sodium
- 6 In powder form, so safe to use
- 7 PeKacid can be mixed with Ca and Mg
- 8 Double effect of PeKacid; nutrient supply is available from the Phosphate ions (H_2PO_4^-) and due to the acidifying effect PeKacid prevents the fixation of those ions in the fertigated area
- 9 Prevent clogging of the pipes and the drippers

Guaranteed analysis:

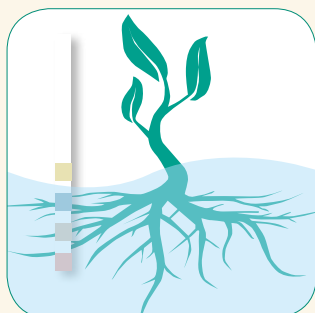
0% NITROGEN (N)
60% PHOSPHORUS PEROXID (P_2O_5), water soluble
20% POTASSIUM OXIDE (K_2O), water soluble

Recommended dilution rate, for stock solutions:

10-15 kg / 100 liter water

*for more specific recommendations please contact ICL SF or your local distributor!

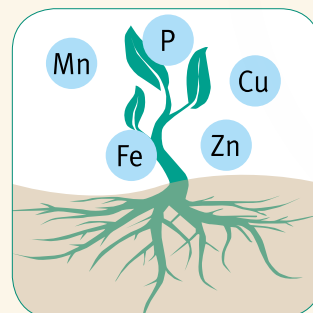
PeKacid effect



Low pH



Anti clogging action



Enhances nutrient uptake

Nova Potassium



Guaranteed analysis:

5% TOTAL NITROGEN (N),
5% Nitrate Nitrogen (N-NO₃),
49% POTASSIUM OXIDE (K₂O),
water soluble
21% SULPHUR TRIOXIDE
(SO₃), water soluble

Recommended dilution rate, for stock solutions:

10-12 kg / 100 liter water

*for more specific recommendations please contact ICL SF or your local distributor!

A unique Potassium based fertilizer

Nova Potassium 5-0-49+21SO₃ is a unique water soluble fertilizer developed by ICL Specialty Fertilizers to complete the Potassium formulations traditionally used in fertigation.

Nova Potassium provides a balanced N-K ratio of 5:49 (21), a suitable alternative for Potassium supply combined with lower amount of Nitrate, which means the product can be applied in later stages when a low level of Nitrogen is needed. Technical characteristics of the product allow the product to be used in fertigation as a Potassium source, even in irrigation with water containing high level of Calcium.

Directions for use

Nova Potassium can be easily recommended for crops with a high Potassium demands.

Nova Potassium contains Nitrogen in Nitrate form which is easily assimilated by the plant.

The product contains also Sulphur which makes it a suitable alternative for other Potassium and Sulphur based product, matching the plant's needs using only one fertilizer.

Benefits

- 1 More balanced ratio of N:K for a Potassium based fertilizer used in fertigation
- 2 Suitable for the preparation of stock solutions with water containing high level of Calcium due to ICL's patented calcium sulphate precipitation inhibitor
- 3 Potassium fertilizer with low salt index providing the right nutrients for salt sensitive crops
- 4 High and fully soluble also in hard water conditions

Nova Ferti-K



The richest Potassium fertilizer

Nova Ferti-K 0-0-61 is the ideal product for Chloride tolerant crops. It is the richest Potassium fertilizer though the least expensive one.

Nova Ferti-K is a Nitrogen-free Potassium carrier, which is an important trait for the bulking up of many vegetables and fruits. It improves fruit color, sweetness and oil content. Along with Potassium, Chloride plays an important role in controlling general osmotic pressure within plant cells, directly involved in regulation of leaf stomata to open or close.

Guaranteed analysis:

0% NITROGEN (N)
0% PHOSPHORUS PENTOXIDE (P₂O₅),
61% POTASSIUM OXIDE (K₂O), water soluble

Recommended dilution rate, for stock solutions:

7-10 kg / 100 liter water

*for more specific recommendations please contact ICL SF or your local distributor!

Benefits

- 1 Potassium regulates water management reducing the incidence of stress factors
- 2 Potassium is involved in transporting of sugars and directly involved in yield increase
- 3 Freely soluble and quickly dissolving

Nova MagPhos

All 3 nutrients in 1 bag

Nova MagPhos 0-55-18+7MgO is a Nitrogen-free, white crystalline, fully soluble, free-flowing Magnesium fertigation fertilizer that also contains Phosphorus and Potassium.

The uniqueness of Nova MagPhos lies in the fact that this product has a high level of Magnesium in combination with a high level of Phosphorus and Potassium while still being slightly acidic. Nova MagPhos is chloride-free and sodium - free, with a high solubility level of 400 g/liter of water (at 20 °C).

Nova MagPhos



Directions for use

Suitable for fertigation or foliar spray, especially at flowering stage.



Nova Quick-Mg

Fast uptake, quick response

Nova Quick-Mg 0-0-15+13MgO is uniquely rich in Potassium and Magnesium which is a blessing for crops which have high K and Mg requirements, like sugar beet, potato, oil palm, tea, sugar cane, banana, pineapple, and many vegetables.

This requirement is often present on tropical soils, where Magnesium deficiencies are very common. The beneficial effects of Nova Quick-Mg are obvious shortly after application. Nova Quick-Mg has a low Sodium content. It is recommended as a replacement for K-Mg fertilizers that add large amounts of Sodium to the soil. This product is white and enjoys very high solubility of 680 g/liter of water (at 20 °C).

Nova Quick-Mg



Directions for use

Suitable for fertigation



Nova N-K

Potassium Nitrate – The most efficient source of Potassium based fertilizer



Guaranteed analysis:

13.5% TOTAL NITROGEN (N)
13.5% Nitrate nitrogen (N-NO₃),
water soluble
46% POTASSIUM OXIDE (K₂O),
water soluble

**Recommended dilution
rate, for stock solutions:**
10-15 kg / 100 liter water

*for more specific recommendations please
contact ICL SF or your local distributor!

Nova N-K 13.5-0-46 is the Potassium Nitrate from ICL Specialty Fertilizers. The product provides a highly efficient source of Nitrogen and Potassium, dissolving quickly in water.

Nova N-K provides an N:K balance of 13:46 which makes the product ideal for crops with a high Potassium demand. Nova N-K contains Nitrogen in Nitrate form which is easily assimilated by the plant. Thanks to the synergistic effect between NO₃⁻ and K₂O, the plants can achieve high rates of absorption of both elements. Nova N-K is recommended to be used in any fertigation system and for all crops in soil or hydroponics..

Directions for use

Nova N-K is recommended to be used in any fertigation systems and for all crops in soil or hydroponics, in covered or open field.

Nova N-K is the ideal product when crops are salt sensitives, in hard water conditions, even when irrigation water contains high Calcium levels, without worries about precipitation.

The product is recommended to be used in high temperature conditions, especially in substrates grown crops in covered areas, when the usage of ammonium based fertilizers should be minimized.

In hydroponics systems, it can be mixed in one single tank with Calcium based fertilizers (e.g. Nova Calcium).

It can be used during all growth stages, especially from fruit set to harvest.

Recommended in hydroponics.

Benefits

- 1 Nova N-K includes Nitrogen in Nitrate form, which remains largely in soil solution becoming immediately available for plant uptake
- 2 Nova N-K can be used on all soils types, growing media and production systems
- 3 This product is suitable for all crops, although is particularly suitable for crops which are sensitive to salinity
- 4 It can be used with Calcium rich waters, without worries about precipitation
- 5 Nova N-K has the highest solubility of all Potassium based fertilizers
- 6 In hydroponic systems, the N in Nitrate form does not compete with Ca for the absorption in the root zone

Calcium Nitrate – The most indispensable fertilizer used in fertigation

Nova Calcium

Nova Calcium 15.5-0-0+26.5CaO is the Calcium Nitrate from ICL Specialty Fertilizers. The product is the most indispensable fertilizer being applied continuously throughout the entire crop's cycle in hydroponics. Nova Calcium will help to maintain an optimum level of Calcium in the plant and will prevent or correct any deficiencies.



Nova Calcium dissolves quickly and easily in water. The product contains mainly nitrate Nitrogen, which is immediately taken up by the plants. Calcium is important to improve the quality and the shelf-life of the final produce. Nova Calcium is recommended for all crops and any fertigation system.



Directions for use

Calcium is a nutrient with low mobility in the plant and therefore it should be continuously applied throughout the entire growth period.

Nova Calcium is recommended to be applied for all crops, especially for sensitive ones to Calcium deficiency, like fruits or vegetables.

It can be used by any fertigation system, providing an optimal growth of vegetation and an adequate level of Calcium in the plant tissues in order to improve transport conditions of the final produce, its shelf-life and quality.

Recommended in hydroponics.

Guaranteed analysis:

15.5% TOTAL NITROGEN (N)
14.5% Nitrate (NO_3),
water soluble
1.0% Ammoniacal (N-NH_4),
water soluble
26.5% CALCIUM OXIDE (CaO),
water soluble

Recommended dilution rate, for stock solutions:

30 kg / 100 liter water

*for more specific recommendations please contact ICL SF or your local distributor!

Benefits

- 1 Nova Calcium provides readily available Nitrate Nitrogen which will quickly be absorbed by the plant
- 2 Nova Calcium is an important Calcium source, the essential meso-nutrient in forming the cell walls within the plant, giving it greater strength and stability, favoring the fruit settings with greater consistency and post-harvest durability
- 3 The contribution of Calcium helps to maintain the structure of soil, displacing the sodium salts. Therefore the risk of soils structure destruction is diminished, especially when saline water is used for irrigation
- 4 Due to its granular form, the product is less sensitive to be compacted during storage



Nova SOP

Potassium Sulphate – High level of Potassium and Sulphur



Guaranteed analysis:

50% POTASSIUM OXIDE (K_2O),
water soluble
43% SULPHUR TRIOXIDE (SO_3),
water soluble

Recommended dilution rate, for stock solutions:

7-10 kg / 100 liter water

*for more specific recommendations please contact ICL SF or your local distributor!

Nova SOP 0-0-50+43SO₃ is the Potassium Sulphate in the ICL Specialty Fertilizers' range. The product is recommended to be used in any fertigation system.

With a high level of Potassium and Sulphur, Nova SOP is the ideal fertilizer for crops with high demand of these nutrients, fulfilling the plant's need and preventing possible deficiencies. Nova SOP is Nitrogen free, which makes this product suitable to be used in periods where Nitrogen should be reduced (e.g. at fruit ripening stage), maintaining the right N:K ratio for this stage. The low salt index provided by Nova SOP, makes the product reliable in various type of soils.

Directions for use

Nova SOP can replace any other source of Potassium available in the market. It can be used in all crops in all stages, especially those one sensitive to salinity, when extra Potassium is needed.

Avoid using the product in water containing high level of Calcium!

Use Nova SOP in periods when high amounts of Calcium Nitrate are applied and N unbalance should be avoided. (Do not mix the products into the same tank!)

Benefits

- 1 Nitrogen free fertilizer with a high concentration of Potassium and Sulphur
- 2 With a very low salt index, Nova SOP is an ideal product for recommendation programs of crops grown in soils with high levels of salinity
- 3 In alkaline soils, the application of Nova SOP tends to reduce the pH in the rootzone, facilitating greater assimilation of Phosphorus and micronutrients
- 4 Nova SOP contains very fine particles (<0.015 mm) which are rapidly dissolved when preparing stock solutions

Nova Mag-S



Guaranteed analysis:

16% MAGNESIUM OXIDE
(MgO), water soluble
32% SULPHUR TRIOXIDE
(SO_3), water soluble

Recommended dilution rate, for stock solutions:

15 kg / 100 liter water

*for more specific recommendations please contact ICL SF or your local distributor!

Nova Mag-S 0-0-0+16MgO+32SO₃ is ICL SF' Magnesium Sulphate fertilizer providing fully soluble and high purity nutrients, dissolving quickly in water.

Nova Mag-S is a high quality product, dedicated to be used in fertigation, completing the plants needs with its nutrients. It contains important nutrients for plant growth – Magnesium is the central part of the chlorophyll molecule, playing a key role in photosynthesis and Sulphur – an indispensable element in aminoacids synthesis.

Boost chlorophyll level and aminoacids synthesis

Benefits

- 1 Highly efficient source of Magnesium and Sulphur increasing chlorophyll activity and aminoacids synthesis
- 2 The product is Nitrogen free, which helps to adjust easily the fertigation program, matching the plants needs for Magnesium and Sulphur
- 3 Freely soluble and quickly dissolving

Breakdown table

Item Number	Brand Name	Product name	Analysis (%)	pH (1%)	Maximum Solubility (g/l at 20°C)	EC (mS/cm)
2487	Nova Calcium	Calcium Nitrate	15.5-0-0+26.5 CaO	5.65	1200*	1.19
2850	Nova MagPhos	Soluble PK plus Mg fertilizer	0-55-18+7MgO	5	400	0.8
2851	Nova PeaK	Mono Potassium Phosphate	0-52-34	4.6	230	0.7
2852	Nova MAP	Mono Ammonium Phosphate	12-61-0	4.5	380	0.9
2853	Nova Ferti-K	Muriate of Potash	0-0-61	7	330	2
2854	Nova Quick-Mg	Soluble Potassium and Magnesium	0-0-15+13MgO	6.7	680	0.9
2856	Nova PeKacid	Soluble acidic PK fertilizer	0-60-20	2.2	670	1.3
2857	Nova Mag-S	Magnesium Sulphate	0-0-0+16MgO+32SO ₃	6.6	330	0.8
2858	Nova N-K	Potassium Nitrate	13.5-0-46	**	**	**
2859	Nova Potassium	Soluble fertilizer for fertigation	5-0-49+21SO ₃	2.6	185	1.49
2860	Nova SOP	Sulphate of Potash	0-0-50+46SO ₃	2.9	120*	1.65

* g/l at 25°C, ** available upon request

Mixability table

	Nova N-K	Nova SOP	Nova PeaK	Nova MAP	Nova Calcium	Nova Mag-S	Nova Ferti-K	Nova Potassium	Nova PeKacid	Nova MagPhos	Nova Quick-Mg
Nova N-K	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Nova SOP	Compatible	Compatible	Compatible	Compatible	NOT Compatible!	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Nova PeaK	Compatible	Compatible	Compatible	Compatible	NOT Compatible!	Caution!	Compatible	Compatible	Compatible	Caution!	Caution!
Nova MAP	Compatible	Compatible	Compatible	Compatible	NOT Compatible!	Caution!	Compatible	Compatible	Compatible	Caution!	Caution!
Nova Calcium	Compatible	NOT Compatible!	NOT Compatible!	NOT Compatible!	Compatible	NOT Compatible!	Compatible	NOT Compatible!	Compatible	Caution!	Compatible
Nova Mag-S	Compatible	Compatible	Caution!	Caution!	NOT Compatible!	Compatible	Compatible	Compatible	Compatible	Caution!	Compatible
Nova Ferti-K	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Nova Potassium	Compatible	Compatible	Compatible	Compatible	NOT Compatible!	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Nova PeKacid	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
Nova MagPhos	Compatible	Compatible	Caution!	Caution!	Caution!	Caution!	Compatible	Compatible	Compatible	Compatible	Compatible
Nova Quick-Mg	Compatible	Compatible	Caution!	Caution!	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible

Compatible

Caution! Test is required – compatibility is depending on pH and water quality

NOT Compatible!



ICL Specialty Fertilizers
P.O. Box 40
4190 CA Geldermalsen
The Netherlands
Tel.: +31 418 655 700
Fax: +31 418 655 795
Email: info@icl-group.com
www.icl-sf.com



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ICL Specialty Fertilizers
Where needs take us