



SOLUBLE FERTILISER

cây trồng

بعدة محصول

Pflanzenernährung

Pemakanan tanaman

Живлення культури

Gewas voedingsstoffen

יבול נתזז
θρέψη των
καλλιεργειών

உயிர்கூலுதல்

Odżywiania
upraw

Nutrição
das culturas

作物の栄養

Nutriția
recolta

작물 영양

Nutrition
des cultures

питание растений

Nutrizione delle colture

dinh dưỡng

Fe

Mn

Cu

Co B

Zn Mo

Ca Mg S

N P K

Crop nutrition

Lishe ya
mazao

Nutrición
de cultivos

ال تغذية المحاصيل

kırpma beslenme

Kultūraugu
uzturs

ธาตุอาหารพืช

作物营养

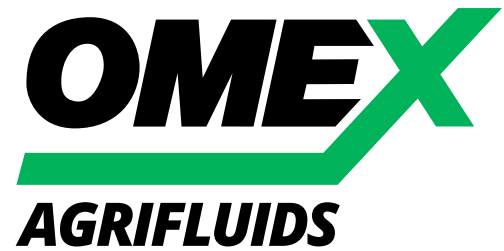
Usjeva
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AUGALŲ MITYBA

फसल, पोषण

põllukultuuride toitumine

Хранене при растенията



Introduction

Established in 1976, OMEX has grown to be a leader in plant nutrition technology worldwide.

OMEX Agrifluids manufacture and export a unique range of plant nutrients and health promoters. The majority of our product range is designed for foliar application, but we also offer specialised seed treatments and a wide variety of high grade soluble powders for fertigation.

Our products are manufactured to the highest quality standards and our team of agronomists actively gives technical support and advice to our customers worldwide.

Working with trusted distribution partners in more than 80 global markets, we combine our expertise with local knowledge to help growers get the best from their crops.

OMEX Soluble Fertilisers

Intensively grown crops require high nutrient inputs to achieve satisfactory yields and quality. It is not possible to provide all these nutrients with the base fertiliser, which means supplementary feeding during the growth of the crop is required.

Application, via irrigation water, is an efficient way of supplying these additional nutrient requirements.

Fertigation of field grown fruit and vegetables enables nutrients to be supplied to crops as they require them, preventing fertiliser wastage through leaching. Fertigation of protected crops enables a continuous supply of all the plant nutrients to be available to plants exactly when they require them.



OMEX Soluble Fertilisers

Advanced Powder Formulations

Plant Nutrition

Plants require significant inputs of the major nutrients nitrogen (N), phosphorus (P) and potassium (K). These nutrients are taken up in ratios which are determined by the growth stage of the plant and they must be available in sufficient quantities to meet demand.

Nitrogen is essential for the formation of amino acids, proteins and genetic material, supporting the structure and function of the whole plant. It plays a key role in leaf and canopy development, photosynthesis and overall plant growth.

Phosphorus is essential for energy transfer and cell division, and supports the development of root and shoot systems. It promotes root activity and contributes to nutrient and water uptake, sugar formation, flowering and fruit development.

Potassium plays a central role in carbohydrate production and the movement of water and nutrients throughout the plant. It supports canopy development, water uptake, fruit set, fruit size and sugar content. Adequate potassium also contributes to plant structure and tolerance to drought.

Micronutrients are required in smaller quantities but are essential for healthy crop growth and development. OMEX Soluble Fertilisers incorporate essential micronutrients alongside NPK and secondary nutrients, helping to maintain a balanced supply throughout the growing cycle.

At certain stages of crop development, the root system may be unable to supply all the nutrients required by the plant. A carefully managed fertigation programme can help maintain nutrient availability as crop demand changes.

Foliar fertilizers can also complement the soluble fertilizer programme at critical growth stages, providing targeted nutritional support when additional nutrients are required.

OMEX Nutrient Management

Effective crop nutrition requires nutrients to be available in the right form, at the right concentration and at the right stage of crop development.

OMEX Soluble Fertilisers form the foundation of a fertigation programme, delivering nutrients through irrigation water and enabling feed strengths and nutrient ratios to be adjusted in line with changing crop requirements

Targeted foliar nutrition can be used alongside fertigation at key growth stages, providing additional nutritional support when demand is high or when nutrient uptake through the roots may be limited by growing conditions.

By combining fertigation with targeted foliar nutrition, growers can build a flexible nutrient management programme that responds to changing crop requirements throughout the growing cycle.

Conductivity

Electrical Conductivity (EC) is a measure of the concentration of dissolved salts in the soil or nutrient solution and can significantly influence water availability to plants. When EC levels are too high, plants may struggle to take up water effectively, which can reduce growth, development and overall crop performance.

This is one consideration when developing a crop nutrition programme. Applying excessive nutrients at planting can increase EC to levels that restrict water uptake and negatively affect crop growth.

OMEX formulations are produced using high-purity nutrients, with recommendations carefully designed to match crop requirements. This helps ensure nutrients remain readily available while avoiding unnecessary increases in EC.

It is also important to consider irrigation water quality, as dissolved salts in the water contribute to overall EC. Regular assessment of irrigation water is recommended, with feed strengths adjusted where necessary to maintain appropriate EC levels and support efficient nutrient uptake.



Benefits of OMEX Soluble Powder Fertilisers

- ◆ 100% water-soluble formulations manufactured from technical-grade raw materials.
- ◆ Nutrients immediately available for plant uptake.
- ◆ Extensive range of NPK ratios to support different crops and growth stages throughout the season.
- ◆ Formulations available with secondary nutrients, including magnesium and sulphur, with high-magnesium options also available.
- ◆ Chelated micronutrients for readily available nutrition.
- ◆ No risk of blockages to irrigation equipment
- ◆ Free from unwanted salts such as chloride and sodium.
- ◆ Suitable for a wide range of fertigation systems, including drip, overhead, vertical and pivot irrigation.
- ◆ Manufactured in the United Kingdom.
- ◆ Red, blue and green dyes available for easy identification
- ◆ Supplied in strong, durable packaging for reliable storage and handling.



Range of OMEX Soluble Fertiliser Grades

No.	Analysis
1	38-10-04+TE
2	13-00-45+TE
3	15-30-15+TE*
4	28-14-14+TE*
5	20-20-20+TE*
6	18-18-18+2MgO+TE
7	16-09-26+3MgO+TE
8	33.5-00-12+TE
9	17 -06 -18 +TE
10	12-15-35 +TE
11	10-08-40+TE*
12	15-15-30+TE
13	12-04-24+6MgO +TE
14	22-21-17+TE
15	12-12-36+TE
16	00-52-34+TE*
17	12-23-28+TE
18	13-22-26+TE
19	13-40-13+TE*
20	13-40-10+TE
21	30-10-10+TE*
22	Albert Solution

OMEX offer a comprehensive range of advanced powder formulations manufactured only from technical grade raw materials and blended to exacting quality standards.

Suitable for use in all fertigation systems, our range provides balanced nutrition containing NPK, magnesium and essential chelated micronutrients. Coloured dyes can also be included in each analysis.

Additional analyses available on request

Albert Solution

- ◆ All essential nutrients in one product
- ◆ Nutrients immediately available for plant uptake
- ◆ Avoid nutrient locking, fixing & wastage
- ◆ Supports crops under environmental stress
- ◆ Can be used in drip irrigation for fertigation
- ◆ No risk of blockages to irrigation equipment



* Conforms with Regulation (EU) 2019/1009 of the European Parliament and the Council of 5 June 2019 (EU fertilising products)

Analyses, Dilution & Conductivity

Percentage nutrient & trace element composition of a selection of OMEX Soluble Fertilisers:

	20-20-20	28-14-14	13-40-13	15-15-30	12-06+24+6MGO
Total N	20.0	28.0	13.0	15.0	12.0
Ureic N	15.5	21.2	0.6	2.7	3.3
NH ₄ -N	2.5	2.8	8.7	3.8	3.1
NO ₃ -N	2.0	4.0	3.7	8.5	5.6
P ₂ O ₅	20.0	14.0	40.0	15.0	6.0
K ₂ O	20.0	14.0	13.0	30.0	24.0
MgO	0.02	0.02	0.02	0.02	6.0
SO ₃	7.4	0.03	2.19	2.43	21.2
B	0.0022	0.0022	0.0022	0.0022	0.0022
Cu	0.0016	0.0016	0.0016	0.0016	0.0016
Fe	0.007	0.007	0.007	0.007	0.007
Mn	0.0042	0.0042	0.0042	0.0042	0.0042
Mo	0.0014	0.0014	0.0014	0.0014	0.0014
Zn	0.0014	0.0014	0.0014	0.0014	0.0014

Nutrient concentrations (ppm) and conductivity* ($\mu\text{S}/\text{cm}$) of this selected range at three dilutions of standard stock solution.

	20-20-20	28-14-14	13-40-13	15-15-30	12-06+24+6MGO
1:100					
N	200	280	130	150	120
P ₂ O ₅	200	140	400	150	40
K ₂ O	200	140	130	300	240
Conductivity	820	780	1200	1050	950
1:150					
N	134	187	87	100	80
P ₂ O ₅	134	94	268	100	27
K ₂ O	134	94	87	200	161
Conductivity	610	580	880	770	700
1:200					
N	100	140	65	75	60
P ₂ O ₅	100	70	200	75	20
K ₂ O	100	70	65	150	120
Conductivity	410	390	600	525	475

*in deionised water. Add conductivity of irrigation water to these figures.

How to use OMEX Soluble Fertilisers

OMEX Soluble Fertilisers are most commonly applied using stock solutions. Stock solutions are typically prepared by dissolving 1 kg of fertiliser in 10 litres of water (or one 25 kg bag in 250 litres of water). These stock solutions are then diluted through the irrigation system to achieve the required nutrient concentration.

Alternatively, feed solutions can be prepared directly in larger tanks without first creating a stock solution. For example, a feed solution equivalent to a 1:100 dilution can be achieved by dissolving 1 kg of OMEX Soluble Fertiliser in 1,000 litres of water.

Where fixed-ratio dilutors are used, the final feed concentration can be adjusted by altering the strength of the stock solution accordingly. This allows the required nutrient concentration to be achieved even where the injector has a fixed dilution ratio.

Electrical conductivity (EC) readings can be used to monitor and control feed strength. Once the target EC has been determined, the conductivity of the irrigation water should also be taken into account. The dilution rate can then be adjusted until the desired final EC is achieved.

OMEX Soluble Fertilisers can also be blended to create customised nutrient analyses. By combining different formulations when preparing stock solutions, growers can produce nutrient ratios to match their crop requirements. This provides flexibility to develop tailored nutrition programmes across a wide range of crops, growth stages and production systems.

How to store OMEX Soluble Fertilizers

- ◆ Store in a cool, dry and well-ventilated location.
- ◆ Keep products off the floor and on the original pallets provided.
- ◆ Store with a maximum of 1000Kg per pallet.
- ◆ Double stacking of pallets is not recommended.
- ◆ Position pallets to allow room for adequate ventilation and regular stock inspection.



Available in 10kg and 25kg bags

Specific crop guidelines & recommendations

Analysis of soil, water and plant tissue, as well as understanding past fertilisation programmes, will help in choosing the appropriate fertiliser to use for any crop in question.

Most crops will require a feed in the range 0.6 to 1.2 grams per litre (0.06 – 0.12% w/w) and using dilutions as recommended below will

give solution concentrations in this range.

The frequency of application is down to individual cropping needs, but the general rule of little and often applies. A weak feed given all the time (i.e. at every watering) is usually preferable to a strong feed interspersed with pure water.

Crop	Time of application	Suggested OMEX soluble fertilizer	Dilution rate of standard stock solution	Comments
Tomato	Early growth	20-20-20	1:200	
	Fruiting, main feed	13-00-45 or 10-08-40 or 12-04-24+6MgO	1:100	Alternate feeds
Cucumber	Early growth	28-14-14	1:200	Gradually move from high N to high K feeds
	Fruiting	15-15-30 or 16-09-26+3MgO	1:150	
Pepper	Early growth	20-20-20	1:200	
	Fruiting	15-15-30 or 12-04-24+6MgO	1:150	At each irrigation
Melon	Early growth	8-18-18+2MgO	1:200	
	Fruiting	17-06-18	1:100	At each irrigation
Aubergine	Early growth	20-20-20	1:200	Similar feeding to peppers
	Fruiting	13-22-26	1:150	
Lettuce	Main feed	28-14-14 or 38-10-04	1:150	Given as a growth boost
Potato	Early growth	13-40-13	1:150	Under pivots
	Main feed	13-00-45	1:100	
Citrus	Small trees	22-21-17	1:100	Citrus can be fed quite extensively
	Fruiting	12-04-24 or 12-12-36	1:100	
Fruit trees e.g. apple	Small trees	15-30-15	1:100	
	Early growth	30-10-10	1:150	
	Fruiting	16-09-26+3MgO	1:100	
Mango	Small trees	17-06-18	1:150	
	Fruiting	12-12-36 or 12-04-24+6MgO	1:100	

Crop	Time of application	Suggested OMEX soluble fertilizer	Dilution rate of standard stock solution	Comments
Strawberry	Early growth	18-18-18+2MgO	1:200	
	Fruiting	12-15-35 or 16-09-26+3MgO	1:100	Alternate feeds
Grape	Fruiting	17-06-18 or 10-08-04	1:100	
Asparagus	Main feed	30-10-10	1:150	
Pineapple	Fruiting	15-15-30	1:100	
Avocado	Main feed	12-15-35 or 16-09-26+3MgO	1:100	
Coffee	Main feed	15-15-30	1:100	
Wheat	Early growth	15-30-15 or 30-10-10	1:200	Under pivots
	Grain set	16-09-26+3MgO	1:150	
Seed beds	Propagation	00-52-34 or 13-40-10	1:200	
Bedding plants	Early growth	22-21-17	1:200	
	Flowering	13-22-26 or 12-23-28	1:100	Maintains flowering
Gerbera	Main feed	12-23-28	1:100	
Cut flowers	Vegetative growth	17-06-18	1:100	
	Main feed	10-08-40	1:100	Maintains flowering
Roses	Main feed	20-20-20 or 12-12-36	1:100	Maintains flowering
Pot plants	Foliage plants	28-14-14	1:150	As growing media nutrients run low
	Flowering plants	15-15-30	1:150	
Chrysanthemums	Main feed	17-06-18	1:100	Cease feeding at bud colour
Grass	Main feed	33-00-12 or 38-10-04	1:150	Under pivots
	As growth slows	12-15-35	1:150	

NOTE

The recommendations provided in this table are intended as a general guide only. Feed formulation, dilution rate and application frequency should be adjusted according to the requirements of the individual crop, growing conditions and soil characteristics.

For crop-specific guidance and tailored nutrition recommendations, please consult your agronomist or local OMEX representative



Application Rate Guidelines

The amount of OMEX Soluble Fertiliser required will vary depending on crop type, growth rate, plant density, harvest period, soil type and existing nutrient levels.

The following guidelines are provided as an indication of likely fertiliser requirements and should be adjusted to suit individual crop and growing conditions.

CROP	Bags (25kg) of OMEX Soluble Fertilizers per hectare per season
PROTECTED AREAS	
Tomatoes, peppers, cucumbers, etc	40
Bedding plants	8
Pot plants	24
Cut flowers	32
FIELD GROWN AREAS	
Strawberries and other soft fruit	12-16
Asparagus, celery, beans	12-20
Roses	10
Nursery stock	20
Turf	8
Citrus	24
Apples, pears and other top fruit	18

Conversion Factors

P to P_2O_5	Multiply by	2.29
K to K_2O	Multiply by	1.2
Mg to MgO	Multiply by	1.62
S to SO_3	Multiply by	2.5

OMEX Product Range

OMEX offer an extensive range of products, manufactured in the UK and delivered globally

Suspension Fertilisers

Highly concentrated totally soluble free flowing formulations for maximum bio-effectiveness on a wide range of crops

- OMEX CalMax®
- OMEX CalMax® Gold
- OMEX CalMax® Ultra
- OMEX Sequential 1
- OMEX Sequential 2
- OMEX 3X Emulsion
- OMEX K41
- OMEX NK60
- OMEX Citromax
- OMEX Micromax
- OMEX Quad 14
- OMEX FeN Feed
- OMEX ZiBo
- OMEX Folicao

Clear Solution Fertilisers

High concentration clear nutrient solutions for foliar and fertigation application

- OMEX Foliar Boron
- OMEX Magnesium Plus
- OMEX FeN Feed
- OMEX Sulphomex

Health Promoters

A unique range of products designed to stimulate plant health and vigour and to increase their ability to withstand pests and diseases.

- OMEX DP98
- OMEX pHortify
- OMEX Vitomex
- OMEX Foliar Supreme
- OMEX K50
- OMEX SW7
- OMEX SuperMn

Biostimulants

A range of products incorporating seaweed to stimulate rooting, plant growth and nutrient uptake. Also to help withstand abiotic stress caused by drought, flooding, salinity and extreme temperatures.

- OMEX Bio 8
- OMEX Bio 20
- OMEX Seastar F

Bio-Fertilisers

- Biomex Starter
- Biomex Plus

Seed Treatments

- Primer CoMo Bio 12 & 33
- Primer CoMo Zn 70

Organomex Range

Foliar Nutrients for organics farming

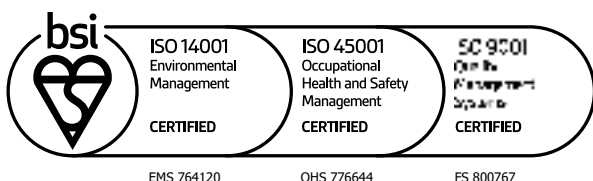
- OMEX Garland
- Organomex 6-2-4

MDS - Fertiliser & Seed Coatings

Easy to apply concentrated aqueous suspensions with high levels of micronutrients

Kingfol Range

Single element formulations for specific deficiencies



EMS 764120

OHS 776644

FS 800767

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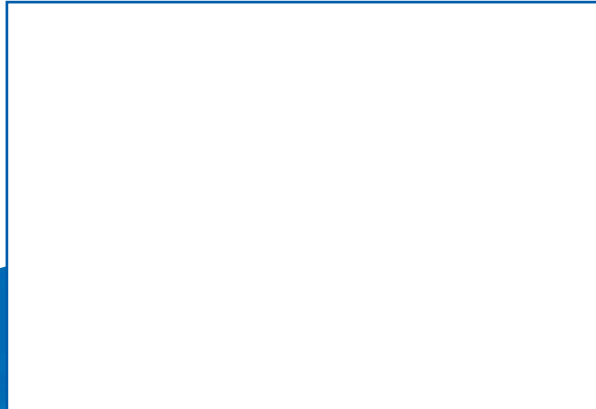
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