# Universol®

# Orange

16-5-25+3.4MgO+TE




Optimized Color Recognition

EC 1,4

Trace Elements Fe Mo Cu Zn B Mn

Bright Solution System

# Product Information

**Universol is a high quality compound NPK water soluble fertilizer offering growers real value for money. it is suitable for use with pot and bedding plants as well as container nursery stock.**

Universol Orange focuses on potassium and slows down plant growth. Because of the higher potassium content it is ideal for flowering pot plants and bedding plants. This product contains NPK, Mg and a full package of trace elements.

The product can also be applied in situations where the irrigation water contains high concentrations of nitrogen. In this case the lower nitrogen content of the product will match with the nitrogen level in the irrigation water. This will result in a more balanced fertilizer offer to the plants.

### Guaranteed analysis

| | |
|---|---|
| **16%** | **TOTAL NITROGEN (N)** |
| | 10.5% nitrate nitrogen ($NO_3$-N) |
| | 5.3% ammoniacal nitrogen ($NH_4$-N) |
| | 0.4 % ureic nitrogen (Urea-N) |
| **5%** | **PHOSPHORUS PENTOXIDE ($P_2O_5$)** |
| | Soluble in neutral ammonium citrate and in water |
| | 5.0% water soluble |
| **25%** | **POTASSIUM OXIDE ($K_2O$)** |
| | 25.0% water soluble |
| 3.4% | MAGNESIUM OXIDE (MgO) |
| 10.8% | SULPHUR TRIOXIDE ($SO_3$) |
| 0.01% | Boron (B) |
| 0.01% | Copper (Cu) chelated by EDTA |
| 0.10% | Iron (Fe) chelated by EDTA |
| 0.04% | Manganese (Mn) chelated by EDTA |
| 0.001% | Molybdenum (Mo) |
| 0.01% | Zinc (Zn) chelated by EDTA |

### Product characteristics

| | |
|---|---|
| EC at 1 g/l (25°C) | : 1.4 mS/cm |
| Maximum solubility (25°C) | : 32 kg / 100 liter water |
| Acidity / Basicity | : -0.114 kg $CaCO_3$/kg Universol |
| Effect on growing media pH | : Neutral - slightly acidifying* |
| Bicarbonate reduction at 1 g/l | : 10mg/l $HCO_3$ |
| Packaging details | : 25 kg, plastic bag |
| Product code | : 2042 |

### Bright Solution System – unique in Universol

Universol fertilizers are the only fertilizers with the unique 'Bright Solution System'.
This addition ensures a crystal clear solution and therefore optimal availability of nutrients for the plant. The Bright Solution System keeps the irrigation system clean and thus makes sure that the system performs smoothly.

### Feature and benefits of Universol Orange

- Easy to apply, safe to use and contains elements: NPK, magnesium, trace elements
- Always the same composition thanks to stringent quality control
- Quick effect due to strong, fast performance
- Dissolves entirely and quickly because of the special ingredients and the 'Bright Solution System'
- Excellent price / quality ratio
- Always a suitable analysis for your crop

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| Recommended Universol rates for pot and bedding plants | | |
|---|---|---|
| | 100 % Universol | 50 % Universol<br>50 % Osmocote |
| Crops with high fertilizer requirements | 1-2 g/l | 0.5-1 g/l |
| Crops with normal fertilizer requirements | 1-1.5 g/l | 0.5-0.75 g/l |
| Salt sensitive crops | 0.5-1 g/l | Depends on situation |

| Recommended Universol rates for container nursery stock crops | | |
|---|---|---|
| Crops with high fertilizer requirements | 20 g/m$^2$/week | 10 g/m$^2$/week |
| Crops with normal fertilizer requirements | 15 g/m$^2$/week | 7.5 g/m$^2$/week |
| Salt sensitive crops | 10 g/m$^2$/week | 5 g/m$^2$/week |

| Possible to mix Universol Orange with: | Mixable? |
|---|---|
| Calcium nitrate | no |
| Potassium nitrate | yes |
| Magnesium nitrate | yes |
| Magnesium sulphate | yes |
| Phosphoric acid | yes |
| Nitric acid | yes |
| Universol Soft Water | no |
| Universol Hard Water | no |
| Universol White | no |
| Universol Special P | no |
| Universol Standard range | yes |
| Other compound water soluble fertilizers | no |

| | Universol | Analysis | NPK ratio | Purpose of the formula |
|---|---|---|---|---|
| Standard range | Violet | 10-10-30+3.3MgO+TE | 2:2:6 | High potassium to provide compact and strong early growth, good leaf color, strong growth without extension and good flower development. |
| | Yellow | 12-30-12+2.2MgO+TE | 1:3:1 | Boosts root growth and shoots bud growth. |
| | Blue | 18-11-18+2.5MgO+TE | 3:2:3 | Well-balanced growth in mid-season. |
| | Green | 23-6-10+2.7MgO+TE | 4:1:2 | Nitrogen for extra growth. |
| | Orange | 16-5-25+3.4MgO+TE | 3:1:5 | Formula for slower growth, particularly suitable for flowering plants. |
| | Basis | 4-19-35+4.1MgO+TE | 1:5:9 | This fertilizer has been specially developed for combination in A-B tank systems. Also suitable for hardening off plants. |
| | White | 15-0-19+9CaO+2MgO+TE | 4:0:5 | No phosphate product with calcium. Designed for application in P-reduced growing systems in soft water. |
| | Special 104 | 9-0-39+3.5MgO+Te | 1:0:4 | Specially developed for application where P-level is used to grow compact plants. |
| | Special P | 19-6-27+TE | - | Product, containing special poly-phosphates, for strong performance. |
| Hard Water range | Hard Water 211 | 23-10-10+2MgO+TE | 2:1:1 | Nitrogen aimed product for growth and reduction of bicarbonates in hard water conditions. |
| | Hard Water 225 | 11-10-28+2MgO+TE | 2:2:5 | Potassium aimed product for compact growth in hard water conditions. Also for use in combination with hard water containing nitrogen. |
| Soft Water range | Soft Water 312R | 18-7-12+6CaO+2MgO+TE | 3:1:2 | Nitrogen aimed product with calcium for growth in soft water conditions. |
| | Soft Water 113R | 11-11-31+2CaO+2MgO+TE | 1:1:3 | Potassium aimed product for quick corrections of potassium and for application in the end phase of the crop. For soft water conditions. |
| | Soft Water 213R | 14-7-22+5CaO+2MgO+TE | 2:1:3 | Potassium aimed product for compact growth in soft water conditions. |

**Attention**

Store the product in a cool, dry and ventilated place.

As circumstances can differ and as application of products is beyond our control, ICL Specialty Fertilizers cannot be held responsible for any negative results. With this publication, all previously given recommendations expire.

Before a new rate, product or application method is used, a small-scale trial is recommended.

Ask your local ICL Distributor or the ICL Technical Area Sales Manager for more information or recommendations.

Consult **www.icl-sf.co.uk/.ie** for your contact in the region.

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