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 Green can be applied if growth is the main objective, as the N:K ratio is nitrogen based (2:1). This product contains NPK, Mg and a full package of trace elements.

Universol Green is advised, at the beginning of crop cycle, just after application of Universol Yellow (high phosphate content).

For strong growing crops Universol Green can be used for a longer period of time. The product has the ideal balance of immediately available nitrate nitrogen and ammonium nitrogen for mid/long term.

Guaranteed analysis

23% TOTAL NITROGEN (N)
- 11.7% nitrate nitrogen (NO₃-N)
- 11.1% ammonia Cal nitrogen (NH₄-N)
- 0.4 % ureic nitrogen (Urea-N)

6% PHOSPHORUS PENTOXIDE (P₂O₅)
Soluble in neutral ammonium citrate and in water
6.0% water soluble

10% POTASSIUM OXIDE (K₂O)
10.0% water soluble

2.7% MAGNESIUM OXIDE (MgO)

9.4% SULPHUR TRIOXIDE (SO₃)

0.01% Boron (B)

0.010% 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) : 1.5 mS/cm
Maximum solubility (25°C) : 25 kg / 100 liter water
Acidity/Basicity : -0.400kg CaCO₃/kg Universol
Effect on growing media pH : Acidifying*
Bicarbonate reduction at 1g/l : 10 mg/l HCO₃
Packaging details : 25 kg, plastic bag
Product code : 2037

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 Green

- 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
### Recommended Universal rates for pot and bedding plants

<table>
<thead>
<tr>
<th>Crops with high fertilizer requirements</th>
<th>100 % Universal</th>
<th>50 % Universal</th>
<th>50 % Osmocote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crops with normal fertilizer requirements</td>
<td>1-2 g/l</td>
<td>0.5-1 g/l</td>
<td></td>
</tr>
<tr>
<td>Salt sensitive crops</td>
<td>0.5-1 g/l</td>
<td>Depends on situation</td>
<td></td>
</tr>
</tbody>
</table>

### Recommended Universal rates for container nursery stock crops

<table>
<thead>
<tr>
<th>Crops with high fertilizer requirements</th>
<th>20 g/m²/week</th>
<th>10 g/m²/week</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crops with normal fertilizer requirements</td>
<td>15 g/m²/week</td>
<td>7.5 g/m²/week</td>
</tr>
<tr>
<td>Salt sensitive crops</td>
<td>10 g/m²/week</td>
<td>5 g/m²/week</td>
</tr>
</tbody>
</table>

### Universal Analysis, NPK ratio, Purpose of the formula

- **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 shoot 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 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 312R** (18-7-12+6CaO+2MgO+TE) - 3:1:2
  - Nitrogen aimed product with calcium for growth in soft water conditions.

- **Soft Water 113R** (11-7-21+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](http://www.icl-sf.co.uk/.ie) for your contact in the region.