Universol®

Soft Water 113R

11-11-31+2CaO+2MgO+TE

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 Soft Water 113R is developed for application in soft irrigation water. This product contains NPK, Mg, Ca and a full package of trace elements. This product is not recommended in hard water types, like well water.

The N:K ratio of 1:3 is potassium aimed. This makes the product ideal for e.g. flowering crops and to hardening off crops in the final crop phase.

Universol Soft Water 113R can be mixed with calcium nitrate. therefor it is also possible to create an N:K ratio of 1:1. Note: mix up to maximum 50:50%. Before adding the $CaNO_3$, first dissolve the Universol.

Do not mix Universol Soft Water 113R in the same tank with other Universol products, other NPK fertilizers and sulfate or phosphate containing fertilizers, except sulfuric or phosphoric acids. To ensure that this product dissolves completely, prepare the stock solution 1-2 hours before use and stir well.



Guaranteed analysis

11%	**TOTAL NITROGEN (N)**
	10.0% nitrate nitrogen (NO_3-N)
	0.1% ammoniacal nitrogen (NH_4-N)
	1.2% uriec nitrogen (Urea-N)
11%	**PHOSPHORUS PENTOXIDE (P_2O_5)**
	Soluble in neutral ammonium citrate and in water
	11.0% water soluble
31%	**POTASSIUM OXIDE (K_2O)**
	31.0% water soluble
2.0%	CALCIUM OXIDE (CaO)
2.0%	MAGNESIUM OXIDE (MgO)
0.01%	Boron (B)
0.010%	Copper (Cu) chelated by EDTA
0.12%	Iron (Fe) 0.06% EDTA
0.04%	Manganese (Mn) chelated by EDTA
0.001%	Molybdenum (Mo)
0.010%	Zinc (Zn) chelated by EDTA

Product characteristics

EC at 1 g/l (25°C)	: 1.1 mS/cm (measured in water with 50 mg/l HCO_3)
	: 1.1 mS/cm (measured in water with 0 mg/l HCO_3)
Maximum solubility (25°C)	: 23 kg / 100 liter water
Acidity/Basicity	: +0.136 kg $CaCO_3$/kg Universol
Effect on growing media pH	: Neutral - slightly alkaline*
Bicarbonate reduction at 1 g/l	: 27 mg/l HCO_3
Packaging details	: 25 kg, plastic bag
Product code	: 2035

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 Soft Water 113R

- All essential nutrients applied by a one tank mix. All elements; NPK, magnesium, trace elements and even calcium
- 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;
- Healthy growth as a result of continuous supply of calcium
- Improves the quality of the irrigation water

ICL, Epsilon House ,West Road Ipswich, IP3 9FJ
T 01473 237 111
E prof.sales@icl-group.com
W www.Icl-sf.co.uk /.ie

Recommended Universol rates for pot and bedding plants		
	100 % Universol	50 % Universol 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 Soft Water 113 with:	Mixable?
Calcium nitrate	yes
Potassium nitrate	yes
Magnesium nitrate	yes
Magnesium sulphate	no
Phosphoric acid	yes
Nitric acid	yes
Universol Soft Water	yes
Universol Hard Water	no
Universol White	no
Universol Special P	no
Universol Standard range	no
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.

Distributed by:
ICL, Epsilon House ,West Road Ipswich, IP3 9FJ
T 01473 237 111
E prof.sales@icl-group.com
W www.icl-sf.co.uk/.ie