Peters® Excel

Hard Water Grow Special 18-10-18+2MgO+TE

Product Information

Peters Excel Hard Water Finisher
Hard water has specific characteristics and requires a special fertilizer; a fertilizer that ensures that the bicarbonate present in the water is neutralized. Products in the Peters Excel 'Acidifier' range have a bicarbonate-neutralizing effect which helps to improve the water quality. It also ensures a stable pH level in the soil. This is a basic requirement for good growth of plants.
Peters Excel products also contain M-77 technology, allowing for maximum absorbability of nutrients.



Guaranteed analysis

18%	**TOTAL NITROGEN (N)**
	10.3% nitrate nitrogen (NO_3-N)
	3.5% ammoniacal nitrogen (NH_4-N)
	4.2% urea nitrogen (Ur-N)
10%	**PHOSPHORUS PENTOXIDE (P_2O_5)**
	Soluble in neutral ammonium citrate and in water, 10.0% water soluble
18%	**POTASSIUM OXIDE (K_2O)**
	18.0% water soluble
2.0%	MAGNESIUM OXIDE (MgO)
0.02%	Boron (B)
0.015%	Copper (Cu) chelated by EDTA
0.12%	Iron (Fe) chelated by DTPA
0.06%	Manganese (Mn) chelated by EDTA
0.010%	Molybdenum (Mo)
0.015%	Zinc (Zn) chelated by EDTA

Product characteristics

EC at 1 g/l (25°C)	: 1.0 mS/cm; measured in water with more than 150mg/l HCO3.
Maximum solubility	: 35 kg / 100 liter water (25°C)
Acidity(A)/Basicity(B)	: A 0.155 kg $CaCO_3$/kg Peters
Packaging details	: 15 kg, plastic bag
Product code	: 2154

pH Control | Hard Water Special | Growth

Feature and benefits of Peters Excel Hard Water Grow Special

- Especially developed for use in hard water and therefore unique in its effects.
- The pH of the soil remains stable as a result of the HCO_3- buffering effect.
- Improves the quality of the irrigation water and reduces the EC value.
- High level of chelated trace elements ensures perfect color and growth.
- Prevents blockage of drippers and keeps irrigation systems clean.
- Maximum availability and absorbability because of M-77 chelating complex.

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

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Original level of Bicarbonate in the irrigation water		Peters Excel containing 5% P_2O_5					
		0.5 g/l Excel		1 g/l Excel		1.5 g/l Excel	
mg/l	mmol/l	mg/l	mmol/l	mg/l	mmol/l	mg/l	mmol
200	3.3	180	3	160	2.6	140	2.3
250	4.1	230	3.8	210	3.4	190	3.1
300	4.9	280	4.6	260	4.2	240	3.9
Original level of Bicarbonate in the irrigation water		Peters Excel containing 10% P_2O_5					
		0.5 g/l Excel		1 g/l Excel		1.5 g/l Excel	
mg/l	mmol/l	mg/l	mmol/l	mg/l	mmol/l	mg/l	mmol
200	3.3	160	2.6	110	1.8	70	1.1
250	4.1	210	3.4	160	2.6	120	1.9
300	4.9	260	4.2	210	3.4	170	2.7

Mixability of Peters Excel		
	Peters Excel	Peters Excel for
$Ca(NO_3)_2$*	Yes	Yes
KNO_3	Yes	Yes
NH_4NO_3	Yes	Yes
$Mg(NO_3)_2$	Yes	Yes
$MgSO_4$	No	Yes
Phosphoric acid	Yes	Yes
Nitric acid	Yes	Yes
Peters Excel for soft	Yes	Yes
Peters Excel for hard	Yes	Yes
Other phosphor containing water	No	No

**Before adding $Ca(NO_3)_2$ (Calcium nitrate) in the stock solution, first completely dillute the Peters Excel.*

Also available in the Peters Excel range

Analysis	Product name	Rooting	Growth	Condensed Growth	Flowering	Combination Single Fertilizers	Foliar Feed
15-5-15+7CaO+3MgO	CalMag Grower		✓				
13-5-20+7CaO+2MgO	CalMag Finisher			✓			
18-10-18+2MgO	Hard Water Grower		✓				
14-10-26+2MgO	Hard Water Finisher			✓			
15-14-25	Extra Acidifier			✓			

Directions for use

Peters Excel Hard Water Grow Special is developed to encourage growth in situations in which hard irrigation water is used. It has an acidifying effect on the irrigation water and neutralizes bicarbonate. Peters Excel Hard Water Grow Special ensures a stable pH level in the soil.

To ensure that this product dissolves completely, prepare the stock solution 1-2 hours before use, stir well or use warm water. Please contact your ICL advisor for a specific crop recommendation. Do not mix Peters Excel with any other NPK or phosphate containing fertilizer, except phosphoric acid.

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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