

Water Soluble Fertilizer

# Peters® Professional

everris.

Peters®  
Professional

20-10-20  
Peat-Lite Special®

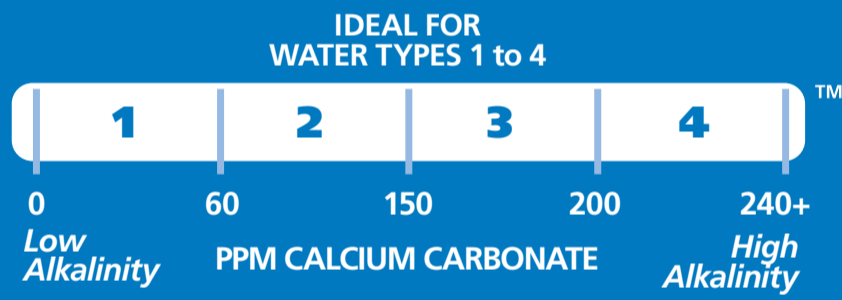
Base  
Formulation

E99250



## 20-10-20

Peat-Lite Special®



NITRATES,  
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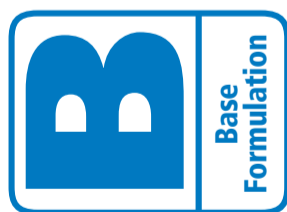
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Net WT 25 lb (11.34 kg)

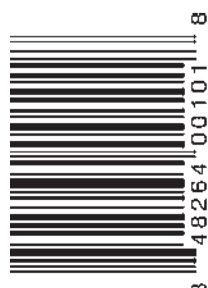
E99250

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**Directions for Use**

**Selecting the correct fertilizer program** – The chemical composition of the irrigation solutions applied to crops has a major influence on the nutrients available to plants in the long term. First, send a sample of your irrigation water to The Everris Testing Lab. Test results will indicate your ABC Water Type (1-4)<sup>™</sup> that can be matched with a similar indicator that appears on the front of each bag of Everris Water Soluble Fertilizer. Selecting a fertilizer based on this water type will ensure you experience the best results from your fertilizer program.

**Selecting the correct concentration** – The correct fertilizer concentration for a particular growing operation will depend on a number of factors including, feeding frequency, crop type, crop stage, growing media, pot size, leaching fraction and environmental conditions. Generally, fertilizer should be applied at concentrations necessary to sustain optimal root zone nutrient levels and quality plant growth. Continuous feeding provides a more uniform plant nutrition program and is recommended over periodic feeding. See Table #1 for general recommendations for crop types.

TABLE 1 Recommended Feeding Rates		
Crop Type	Constant Liquid Feeding ppm N	Periodic Feeding ppm N
Bedding Plants	50 – 150	150 – 250
Containerized Woody Plants	50 – 100	200 – 350
Flowering Pot Crops	200 – 300	300 – 450
Potted Foliage	150 – 200	250 – 300
Plugs (All Types)	50 – 125	175 – 225
Landscape/Outdoors	200 – 300	400 – 600

**Mixing Concentrated Stock Tanks** – Most growers make up concentrate solutions in a stock tank and use an injector system to achieve the correct final concentration. For best results:

1. Decide if you want to dilute a partial bag (Table #2) or full bag (Table #3) of fertilizer.

TABLE 2 Weight (In Ounces) of Product Needed To Mix One Gallon of Concentrate				
Target Fertilizer Concentration (ppm N) After Dilution	Injector Ratios			EC mmhos/cm of Target Feed Rate After Dilution
	1:15	1:100	1:200	
50	0.5	3.4	6.8	0.30
100	1	6.8	13.5	0.59
200	2	13.5	27	1.18
300	3	20.3	40.5	1.77

TABLE 3 Gallons of Water Required to Dissolve One 25 Lb. Bag of Fertilizer		
Target Fertilizer Concentration (ppm N) After Dilution	Injector Ratios	
	1:100	1:200
50	118.5	59.3
100	59.3	29.6
200	29.6	14.8
300	19.8	9.9

- Determine your desired Target Fertilizer Concentration (ppm N) After Dilution.
- Select your Injector Ratio Setting.
- (a.) Table #2 - the value stated is the correct weight of fertilizer necessary to make one gallon of concentrate. (To Make More Than 1 Gallon: Multiply the value times the number of gallons of concentrate you wish to mix – i.e., stock tank volume.)  
(b.) Table #3 – the value stated is the volume (in gallons) of water required to dissolve one 25 pound bag of fertilizer.
- Fill the concentrate tank to approximately 1/3 tank volume. (Note: if possible use warm water to more quickly dissolve the fertilizer.)
- Add mineral acid only if necessary (addition may be required with alkalinity levels greater than 250 mg/L calcium carbonate).
- Add fertilizer and stir vigorously.
- Top off the tank volume with water.

Mixing For Watering Cans, Spray Tanks (No Injectors)			
Conventional Measure	= Grams	+ Amount of water (gallons)	= ppm N
1 tsp	5.4	1	284
1 Tbsp	16.1	2	426
1 cup	257.7	25	545

100 gallons of water + 1 pound of fertilizer = 239.7 ppm N.

Product Properties		
Potential Acidity	Conductivity of 100 ppm	Maximum Solubility
415 lbs. calcium carbonate equivalent per ton	0.59	3 lbs/gal

**Fertilizer Compatibility** – All Peters Excel fertilizers are tank mix compatible with each other. However, not all Peters Professional and Peters Excel water soluble fertilizer products are compatible. There can be problems when blending calcium containing fertilizers with sulfuric acid or sulfate containing fertilizers such as S.T.E.M.<sup>™</sup>, Epsom salts (magnesium sulfate). Refer to Everris Compatibility Information on our website.

**Solubility** – Product components are completely water soluble. However, a number of factors will determine how fast the fertilizer will dissolve (i.e., desired concentration, temperature of irrigation water, agitation, time, irrigation water quality, the fertilizer itself and compatibility of other components in the stock tank). Each product has a stated maximum solubility that is determined under ideal lab conditions – it is physically impossible to maintain solubility above this value.

**Water Soluble Fertilizer Appearance** – This product is composed from a number of components, varying in size. Some of the products are uniform in appearance while others quite heterogeneous. The tracer dye color intensity and distribution may appear variable in the bag. However, once the product is diluted in a stock tank the colorant level should be consistent.

**Monitoring** – The Everris Testing Laboratory is a reliable source for testing water, growing media or tissue. Injector monitoring and maintenance will help to ensure that you are feeding at optimal levels. Weekly on-site measurements of fertilizer solution and crop media EC and pH can be a valuable tool in managing your crop. A follow-up program of complete media analysis (and tissue in problem-solving situations), should be initiated to optimize your nutritional program.

**Need More Information** – To fine-tune your fertilizer selection to your individual growing conditions, you can contact an experienced Everris horticultural professional or you can refer to the [www.PetersABC.com](http://www.PetersABC.com) website to access the Peters ABC Selection System<sup>™</sup>.

EP99250



Peters® Professional 20-10-20  
Peat-Lite Special®

(For Continuous Liquid Feed Programs)

Guaranteed Analysis	F1877
Total nitrogen (N) .....	20%
8.0% ammoniacal nitrogen	
12.0% nitrate nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	10%
Soluble potash (K <sub>2</sub> O) .....	20%
Magnesium (Mg) .....	0.15%
0.15% water soluble magnesium (Mg)	
Boron (B) .....	0.0250%
Copper (Cu) .....	0.0250%
0.0250% chelated copper (Cu)	
Iron (Fe) .....	0.1000%
0.1000% chelated iron (Fe)	
Manganese (Mn) .....	0.0500%
0.0500% chelated manganese (Mn)	
Molybdenum (Mo) .....	0.0100%
Zinc (Zn) .....	0.0500%
0.0500% chelated zinc (Zn)	

**Derived from:** ammonium nitrate, potassium nitrate, potassium phosphate, magnesium sulfate, boric acid, copper EDTA, iron EDTA, manganese EDTA, ammonium molybdate, zinc EDTA.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

**WARNING:** This fertilizer contains more than .001% molybdenum (Mo). The application of fertilizing materials containing molybdenum (Mo) may result in forage crops containing levels of molybdenum (Mo) which are toxic to ruminant animals.

**SAFETY INSTRUCTIONS:**  
FOR SAFETY INSTRUCTIONS, REFER TO THE MATERIAL SAFETY DATA SHEET, OR CALL 1-800-492-8255 or 314-983-7500.

**WARNING: May be harmful if swallowed or inhaled. May cause irritation.**

- Avoid contact with eyes, skin and clothing.
- Avoid breathing dust.
- Wash thoroughly after handling.
- Do not swallow.

**First Aid:** In case of contact, immediately flush with plenty of water for at least 15 minutes. Call a physician; flush skin with water. Wash clothing before reuse.

**Spills and Disposal:** If spilled, absorb with an inert noncombustible material and remove for disposal. Dispose of all waste in accordance with applicable government regulations.

**Storage:** Opened bags should be sealed. Unsealed or partially used products may take on moisture from the atmosphere and may subsequently soften or harden in the bag. As long as bags are properly re-sealed, this should in no way diminish nutrient content of the fertilizer. Store product in a cool, dry environment.

**FOR PROFESSIONAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.**

**DISCLAIMER AND LIMITATION OF LIABILITY  
IMPORTANT NOTICE FROM EVERRIS NA INC. ("Everris").  
PLEASE READ BEFORE USE.**

By using this product, user or buyer accepts the conditions, disclaimer of warranties and limitations of liability. Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once for full refund.

**CONDITIONS:** This product has been researched to provide necessary data to support its uses listed on the label. The directions for use of this product are believed to be adequate and the user or buyer must always follow the label directions carefully and exercise judgment and caution when using this product under their growing conditions. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness, unsatisfactory or substandard results or other unintended consequences may result because of such factors as weather conditions, presence or absence of other materials, or the manner of use or application, all of which are beyond the control of Everris. All such risks shall be assumed by the user or buyer.

**WARRANTY:** This product corresponds to all claims and descriptions set forth on the label and, subject to the conditions set forth above, is reasonably fit for use for any purpose for which it is intended. Everris recognizes that the rights and remedies of the user or buyer are subject to the provisions of the applicable state law, but makes no other warranties or representations, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Everris is authorized to make any warranties beyond those contained herein or to modify the warranties contained therein. Subject to the user's or buyer's rights and remedies under the applicable state law, Everris disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** Subject to the user's or buyer's rights and remedies under the applicable state law, the exclusive remedy of the user or buyer and the liability of Everris or its affiliates, for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid by the user or buyer for the quantity of this product involved or at Everris' election, the replacement of the product. Subject to the user's or buyer's rights and remedies under the applicable state law, any and all claims or actions related to the use or handling of this product must be commenced within one (1) year from the date the product was purchased.

To request additional information, please contact your Everris Distributor or call Everris Customer Service at 1-800-492-8255 or 314-983-7500.



Manufactured for  
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Testing Lab: 1-877-467-8522



Made in the U.S.A.

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