

## JACK'S PROFESSIONAL® Product Descriptions

J.R. Peters, Inc. offers the highest quality formulations with a more effective chelating system resulting in improved plant performance. Jack's Professional® fertilizers dissolve faster and cake less than ever before!

<p><b>Jack's LX™ Water-Soluble Fertilizers</b></p>	<p><b>The LX™ system utilizes proven acidifying solutions to keep N, P, K, Ca and Mg in concentrated form together! All formulations in this enhanced line of fertilizers are fully mixable to tailor customized blends for individual growers and water supplies. The LX™ system provides a peat-lite micronutrient package that is balanced throughout the product line. This ensures a consistent micronutrient level is supplied when products are tank-mixed.</b></p>
<p><b>21-5-20</b> All-Purpose  Product # 77990</p>	<p>This is the ideal fertilizer for moderate to high alkalinity waters. It is formulated with over 60% nitrate nitrogen and a peat-lite level of micronutrients. It can be tank-mixed with 15-5-15 and other Jack's LX™ formulas.</p>
<p><b>20-5-19</b> Poinsettia  Product # 77590</p>	<p>This is an ideal fertilizer for poinsettia production with moderate to high alkalinity waters. The peat-lite level of micronutrients is adjusted to provide higher zinc and molybdenum and lower boron with over 60% nitrate nitrogen. It can be tank-mixed with other Jack's LX™ formulas.</p>
<p><b>17-4-17</b> Pure Water  Product # 77560</p>	<p><b>THE</b> Jack's LX™ blend for growers desiring a 4-1-4 ratio for pure water. This formulation will not cause pH crash in media. Calcium is supplied at 3% with magnesium at 1.5% to add what pure water does not supply.</p>
<p><b>16-2-15</b> Plug Formula for High Alkalinity Water  Product # 77600</p>	<p>This product is designed for plug production with high alkalinity waters. Plug growers generally prefer low phosphorus and high nitrate levels for plug production but many have trouble keeping their growing medium pH under control when using traditional plug formulas. This product is formulated with 75% nitrate nitrogen and a low phosphorus content to promote compact, sturdy plugs and 3% calcium and 1.5% magnesium, yet it is potentially acidic.</p>
<p><b>15-5-15</b> Ca-Mg  Product # 77940</p>	<p>This is a truly comprehensive fertilizer with all the macro and micronutrients in one tank. It contains 4% calcium and 2% magnesium, making it an ideal choice for waters low in those nutrients. It is formulated with 80% nitrate nitrogen and a peat-lite level of micronutrients. It can be tank-mixed with 21-5-20 and other Jack's LX™ formulas.</p>
<p><b>15-2-20</b> Pansy, Salvia, Vinca  Product # 77040</p>	<p>This product combines 3.5% calcium and 1.75% magnesium and the elevated boron, iron and manganese levels that pansies, salvias and vincas require. The 84% nitrate nitrogen and low phosphorus content control stretch.</p>
<p><b>15-0-0</b> Cal-Trate  Product # 77470</p>	<p>This product can be tank-mixed with other Jack's LX™ formulas to supply additional calcium and nitrogen. Unlike regular calcium nitrate, it contains the LX™ micronutrient package. At 100 ppm nitrogen it supplies 120 ppm of calcium.</p>
<p><b>15-0-14</b> Dark Weather Plus Magnesium  Product # 77270</p>	<p>This is an ideal product for growers who want a non-phosphorus, high nitrate product but need additional magnesium. It is formulated with 82% nitrate nitrogen, 5% calcium, 2% magnesium and the LX™ level of micronutrients. It can be tank-mixed with other Jack's LX™ formulas.</p>
<p><b>14-5-38</b> K-Trate  Product # 77950</p>	<p>This product is formulated with 75% nitrate nitrogen and elevated potassium levels for strong stems. It can be tank-mixed with other Jack's LX™ formulas to produce customized N-P-K blends.</p>

<b>13-2-13</b> Plug Product # 77490	This is an ideal fertilizer for plug production with 6% calcium and 3% magnesium. It is formulated with 94% nitrate nitrogen and a low phosphorus content to promote compact, sturdy plugs. It can be tank-mixed with other Jack's LX™ formulas.
<b>10-0-0</b> Mag-Trate Product # 77420	Magnesium is supplied at 9% in this micronutrient-enhanced fertilizer. Nitrogen is supplied as nitrates. Mag-Trate is fully mixable in concentrate with all fertilizer blends made by JR Peters, Inc.

<b>Jack's FeEDs™ Water-Soluble Fertilizers</b>	<b>These are the newest additions to the Jack's Professional® line of fertilizers. They feature our most advanced chelating system and boosted levels of micronutrients to fit the specific needs of today's crops. Each product contains increased levels of iron, derived from three chelate sources (EDDHA, EDTA and DTPA) to keep it available over a wide range of pH values. They also contain magnesium, low ammonium, and no urea nitrogen.</b>
<b>22-5-16</b> Mum FeED Product #77740	Mums are heavy feeders that respond well to additional magnesium, sulfur and iron. Many times though, the iron becomes unavailable as the pH rises. The elevated iron levels found in the exclusive FeED iron chelate system keeps the iron available to the plant even if the pH rises during the crop cycle. The additional 2% nitrogen in this formula reduces your fertilizer usage by approximately 10%, making this product not only nutritionally effective, but cost effective as well.
<b>20-3-19</b> Petunia FeED Plus Magnesium Product #77770	This product is specially formulated for those chronically iron-hungry crops such as petunia, calibrachoa, bacopa and others. It contains double the iron of peat-lite formulations, derived from three chelate sources to keep it available over a broad range of growing medium pH values. It contains 60% nitrate nitrogen, magnesium and no urea. The low phosphorus level helps prevent excessive elongation. It is not recommended for use on geraniums or other iron sensitive crops.
<b>17-5-19</b> Poinsettia FeED Plus Magnesium Product #77760	This product is designed to fit the needs of the newer poinsettia cultivars that need the micronutrients, but a lesser amount of macronutrients. It contains 50% more micronutrients than a typical poinsettia peat-lite formula, yet it provides less boron. The iron is derived from three chelate sources to keep it available over a wide range of growing medium pH values. It provides 1 ppm of molybdenum for each 200 ppm of nitrogen and contains additional magnesium and high nitrate nitrogen levels.
<b>15-4-15</b> Poinsettia FeED Ca-Mg Product #77750	This product features all of the benefits of 17-5-19 Poinsettia FeED but also supplies calcium.

<b>Jack's Professional® Water Soluble Fertilizers</b>	<b>Premier grade fertilizers formulated with highest quality components and manufacturing controls. Bob Peters has improved his special blend of growth enhancing "goodies" that are included in every batch of the Jack's Professional® brand.</b>
<b>27-15-12</b> Foliar Feed Product # 77521	This is <b>THE</b> fertilizer to use for foliar feeding of ornamentals, vegetables and fruits. The high urea content and micronutrients promote green-up and foliar expansion. Can be used in conjunction with normal media fertilization or alone. Addition of a surfactant enhances activity.

<b>24-8-16</b> Tropical Foliage Product # 77930	A great choice for plants grown in warm conditions. The 3:1:2 ratio is considered ideal for tropical foliage plant production and is useful in interiorscapes. Its high potential acidity is helpful in controlling media pH when moderate to high alkalinity irrigation waters are used.
<b>21-7-7</b> Acid Product # 77130	This is an ideal fertilizer for acid-loving plants in the nursery and landscape. Provides a rapid correction of a high pH situation. Unlike other brands, Jack's 21-7-7 Acid contains no harmful chlorides.
<b>20-20-20</b> GP Product # 77010	The general-purpose industry standard, 20-20-20 is great for maintaining plants in garden center and growing facilities. It provides fast green-up and great foliar expansion due to the high percentage of ammonium and urea nitrogen plus balanced phosphorus and potassium for excellent root and shoot growth.
<b>20-10-20</b> GP Product # 77840	One of the most popular formulations, 20-10-20 GP has the traditional micronutrient levels needed for general production including propagation and all types of bedding plants. High nitrate nitrogen levels (60% of the total) provides for green foliage and more compact growth.
<b>20-10-20</b> Peat-Lite Product # 77860	The most popular formulation, 20-10-20 Peat-Lite has approximately twice the level of micronutrients as the GP formulation. The additional level of micronutrients provides necessary elements absent from most commercially made peat-lite potting media.
<b>20-0-20</b> Hi Cal Peat-Lite Product # 77660	A high calcium (6%), low-phosphorus formulation that is neutral in reaction. The additional level of micronutrients provides necessary elements absent from most commercially made peat-lite potting media. Helps to control plant stretch. Excellent for use in warm environments.
<b>17-5-24</b> Low Acid Peat-Lite Product # 77430	High nitrate nitrogen, low potential acidity fertilizer. Enhanced magnesium and sulfur levels can reduce the need for Epsom salts. Good for use when cool, dark growing conditions are prevalent and no additional calcium is required. The additional level of micronutrients provides necessary elements absent from most commercially made peat-lite potting media.
<b>16-4-12</b> Easter Lily Product # 77100	The 4:1:3 ratio is ideal for lily production. The potential basicity of this formulation helps to maintain media pH values over 6.0 for leaf scorch reduction. It controls stretch while promoting strong growth and long-lasting blooms.
<b>15-30-15</b> Hi Phosphate Product # 77080	The 1:2:1 ratio of this formulation promotes flowering and root growth. It can be used as plants enter the flowering stage to increase bud set and bud count and to improve flower color and size. It is also useful as a plant starter indoors or outdoors. It helps with transplant shock. This fertilizer has the traditional micronutrient levels found in general purpose formulations.
<b>15-20-25</b> Poinsettia Finisher Product # 77050	An excellent choice for finishing poinsettias grown in soil containing mixes. It is formulated with additional molybdenum and traditional levels of micronutrients. The 3:4:5 ratio and high nitrate nitrogen content has been shown to produce strong stems and bright bracts.
<b>15-16-17</b> Peat-Lite Product # 77220	Similar to 20-20-20 but with over 60% nitrate nitrogen, boosted micronutrient levels and much less acidic reaction in the root media! The balanced N-P-K ratio is excellent for producing fast-growing plants or for maintaining plants in a sales environment.

<b>15-15-15</b> Geranium Product # 77020	An ideal fertilizer for geraniums and other neutral pH loving plants. The high phosphorus content promotes strong root growth and bud set and is great for pink hydrangeas. The high nitrate nitrogen content (56%) and the general-purpose level of micronutrients help minimize nutritional toxicities on geraniums.
<b>15-11-29</b> Peat-Lite Product # 77230	The nitrogen to potash ratio (1:2) is excellent for use as a finisher. It is great for pot mum production and for other crops with high potassium requirements, such as greenhouse tomatoes. The additional level of micronutrients provides necessary elements absent from most commercially made peat-lite potting media.
<b>15-10-30</b> Pot Mum Product # 77110	The nitrogen to potash ratio (1:2) is excellent for pot mum production and for other crops with high potassium requirements. This fertilizer has the traditional micronutrient levels found in general purpose formulations.
<b>15-5-25</b> Poinsettia Peat-Lite Product # 77790	This fertilizer contains more than 70% nitrate nitrogen and has a micronutrient package adjusted for poinsettias (lower boron and increased magnesium, zinc and molybdenum.) An ideal choice for low alkalinity waters when the feed program is supplemented with calcium-containing products.
<b>15-0-15</b> Dark Weather Product # 77190	The traditional high-calcium fertilizer (11%) for growers who need to supplement their fertilizer programs with calcium. Alternate with 20-10-20 Peat-Lite or use as a “finisher” for flowering plants like poinsettias. This formula has the traditional micronutrient levels needed for general production.
<b>15-0-15</b> Dark Weather Peat-Lite Product # 77180	Dark Weather Peat-Lite has approximately twice the level of micronutrients as our traditional formulation. The additional level of micronutrients provides necessary elements absent from most commercially made peat-lite potting media.
<b>10-30-20</b> Blossom Booster Product # 77160	Use this high phosphorus formulation during periods of bud set to increase number and size of blossoms. Resume use of traditional production fertilizers for the remainder of growing cycle to avoid internode stretch. Great for vegetable production.
<b>9-45-15</b> Plant Starter Product # 77140	Initial use of 9-45-15 when transplanting into cells or beds supplies the high-phosphorus ratio designed to boost root growth prior to shoots. Can also be used to correct or supplement low phosphorus situations, especially in outdoor production.
<b>5-12-26</b> Hydroponic Product # 77251	<b>THE</b> fertilizer to use for hydroponic plant production. It is easily modified to fit specific crop needs and individual water qualities. Supplies magnesium and sulfur with 100% nitrate nitrogen.
<b>15.5-0-0</b> Calcium Nitrate Product # 77260	This product is used to supplement calcium (18%) and nitrate nitrogen with no micronutrients added. It can be used to raise media pH and to reduce ammonium, sodium and high micronutrient levels. This “greenhouse grade” material can be used for foliar sprays to supplement calcium levels in tissue.
<b>13-0-44</b> Potassium Nitrate Product # 77241	This product is used to supplement potassium and nitrate nitrogen with no micronutrients added. It can be used to raise media pH and combat micronutrient toxicities. Can be used alone or as a component of custom fertilizer programs.
<b>MOST</b> – Mix of Soluble Traces Product # 77391	A full package of micronutrients required for greenhouse and nursery production. Fully soluble and mixable with fertilizers not containing calcium.

<b>MOST – No Boron</b> Product # 77392	A revolutionary No Boron Mix of Soluble Traces for locations naturally high in boron. A <b>MUST</b> for poinsettia production in those areas!!!
<b>Chelated Trace Element Mix</b> Product # 77480	This chelated micronutrient package is designed for incorporation into the liquid feed program of growers who mix their own fertilizers. It is completely soluble and contains a colored dye.
<b>Ammonium Molybdate</b> 12 x 1 lb. case Product # 77743	Used as a fertilizer supplement for poinsettias and many vegetable crops. It can be incorporated into the liquid feed program or used as a foliar spray.
<b>12-3-15 Orchid –RO Type Water</b> Product #77640	Designed specifically for very low alkalinity waters such as RO, rain or distilled waters. This is a low phosphorus formula containing all essential nutrients. A pH adjuster is recommended (sold separately) to keep the finished solution near the preferred pH of 6.5.
<b>16-4-20 Orchid Well Water</b> Product # 77650	For average water types. This low phosphorus formula has added calcium and magnesium, and the neutral formula will not raise or lower media pH.

<b>Jack's Special™ Water-Soluble Fertilizers</b>	<b>Designed for the price-conscious grower, Jack's Special™ Fertilizers are made from highest quality ingredients with the care you have come to expect from the original makers of the blue stuff!</b>
<b>22-18-18</b> General Purpose Product # 77580	Similar to 20-20-20, this slightly higher nitrogen formulation provides quick green-up and excellent maintenance for flowerbeds and plants in garden centers.
<b>21-8-18</b> Peat-Lite Product # 77440	This 59% nitrate nitrogen formulation has a 2-1-2 balance widely used by growers of all types of flowering and vegetable plants.
<b>21-2-18</b> Low Phosphorus Peat-Lite Product # 77530	Designed for low phosphorus feed programs, this fertilizer contains 50% nitrate and 50% ammoniacal nitrogen with elevated micronutrient levels.
<b>17-15-17</b> Peat-Lite Product # 77540	The balanced N-P-K ratio is excellent for producing fast-growing plants or for maintaining plants in a sales environment. This product combines high nitrate nitrogen and elevated micronutrient levels.
<b>17-5-26</b> Finisher Product # 77500	An ideal fertilizer for finishing and toning bedding plants, potted plants and cut flowers. It combines high potassium and nitrate nitrogen (60%) with the traditional micronutrient levels needed for general production.
<b>17-0-17</b> 4Ca 2Mg Product # 77510	Combines 81% nitrate nitrogen, 4% calcium and 2% magnesium with relatively low potential basicity. Excellent for low phosphorus feed programs and plug production.
<b>16-0-17</b> –10Ca .05Mg Product # 77460	Used as a dark weather type feed where growers desire low ammonium/urea nitrogen, this formulation also supplies some magnesium to help maintain foliar color.
<b>15-0-14</b> 5Ca 2Mg PL Product # 77450	Combines 83% nitrate nitrogen, 5% calcium and 2% magnesium. Excellent for low phosphorus feed programs and plug production. Combats effects of high sodium in irrigation water when used in conjunction with an acidification program.

<p><b>13-2-13</b> 6Ca 3Mg Plug PL Product # 77550</p>	<p>An excellent choice for plug production. This fertilizer combines 94% nitrate nitrogen with 6% calcium and 3% magnesium. Combats effects of high sodium in irrigation water when used in conjunction with an acidification program.</p>
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<p><b>Jack's Professional® Dry Nutrient Charge</b></p>	<p><b>This product is designed for growers who mix their own growing media and prefer a granular nutrient charge. It contains all the essential major, secondary and micronutrients (in immediate and slow-release forms). The only other ingredients the grower may wish to add are limestone or gypsum.</b></p>
<p><b>10-5-10</b> Media Mix Plus III Product # 77370</p>	<p>This product is designed to get plants off to a good start, but is most effective when a liquid feed with the appropriate Jack's Professional® fertilizer is initiated immediately after planting. Incorporate at the rate of 2 lbs. per cubic yard of mix for most growing situations. Available with or without wetting agent. Do not sterilize media after incorporating any fertilizer product. Packaged in 50 lb. bags.</p>
<p align="center"><b>CUSTOM FORMULATIONS AVAILABLE!</b></p>	