



# KQ-XRN

## 28-0-0 with 72% Slow Release Nitrogen TECH SHEET

### GUARANTEED ANALYSIS:

Total Nitrogen (N)\*.....28%  
7.8% Urea Nitrogen  
20.2% Slowly available water soluble nitrogen\* derived from urea, polymethylene urea, methylene diurea and monomethylol urea.  
  
20.2% Slowly available water soluble nitrogen\* from urea, polymethylene urea, methylene diurea and monomethylol urea.  
  
Weight: Kg/L.....(lbs/gal).....1.26.....(10.5 lbs)  
Gallons per Ton.....190.5 gal.  
Nitrogen per Gallon.....2.94 lbs.

MANUFACTURED BY  
KUGLER OIL COMPANY • 209 West 3<sup>rd</sup>; PO Box 1748  
McCook, NE 69001  
308 -345 -2280  
[www.kuglercompany.com](http://www.kuglercompany.com)

**CAUTION:** KEEP OUT OF REACH OF CHILDREN. Do not get in eyes, on skin or on clothing. Wear goggles, face shield, or safety glasses and rubber gloves when handling. If eye exposure occurs get medical attention immediately. Harmful if swallowed. Avoid breathing vapor. Protect from freezing. Read entire label before using. Wash contaminated clothing before reuse.

### WHAT TO DO IN CASE OF CONTACT:

**IF IN EYES:** Flush eyes with water for 15 minutes, holding eyelids open. Obtain medical attention if irritation develops.

**IF ON SKIN:** Wash skin thoroughly with soap and water. Get medical attention if irritation develops.

**IF SWALLOWED:** Drink large volumes of water and induce vomiting by placing finger at back of throat. Call a physician or poison control center.

**IF INHALED:** Move to fresh air. Obtain medical attention if irritation develops. If contact is made with spray solution containing pesticide(s), follow the "Statement of Practical Treatment/First Aid" the pesticide(s) label.

### GENERAL INFORMATION:

Foliar fertilization is intended as a supplement to a regular fertilization program and will not, by itself, provide all the nutrients normally required by most crops. 72% of the total Nitrogen in this product is controlled release.

### RECOMMENDED FOLIAR RATES:

**ALFALFA:** 3.785 - 7.571 L/Ac or (1-2 gals/ac). Apply after each cutting when sufficient foliage is present. May be used with pesticides.

**APPLES:** 3.785 - 5.678 L/Ac or (1-1½ gals/ac) in bud swell to king bloom and 3.785 - 5.678 L/Ac or (1-1½ gal/ac) 30 days later. 3.785 - 5.678 L/Ac or (1-1½ gals/ac) 30-40 days prior to harvest for sizing. Post harvest: Apply 11.36 - 18.93 L/Ac or (3-5 gals/ac) in 1 or 2 applications.

**SNAP BEANS:** 11.36 L/Ac or (3 gal/ac) at early bloom (with fungicide). Can be applied in split applications

**DRY BEANS:** 7.571 - 11.36 L/Ac or (2-3 gal/ac) at early bloom.

And repeat after pods are formed.

**GREEN BEANS & PEAS:** 3.785 - 11.36 L/Ac or (1-3 gal/ac) shortly after first flowers appear and repeat 10-14 days later.

**LIMA BEANS:** 7.571 - 11.36 L/Ac or 2-3 (gal/ac) at early bloom and repeat after pod fill begins.

**CABBAGE, CAULIFLOWER, BROCCOLI:** 7.571 - 11.36 L/Ac or 2-3 (gal/ac) at early head formation and repeat 7-10 days later.

**CELERY:** 3.785 - 7.571 L/Ac or 1-2 (gal/ac) 10 days after transplanting. Repeat at 7.571 L/Ac or (2 gal/ac) in 3 intervals until 3 weeks prior to harvest, using 7-8 gallons total over crop.

**CITRUS:** 3.785 - 18.93 L/Ac or (1-5 gal/ac) at pre-bloom or bloom to increase fruit set and repeat in 30 days. Subsequent applications when nitrogen needs are evident

**CORN:** May apply up to 18.93 L/Ac or (5 gal/ac) with seed at planting. Foliar apply up to 7.571 L/Ac or (2 gal/ac) any time extra nitrogen is needed.

**CORN (SEED):** May apply up to 18.93 L/Ac or (5 gal/ac) with seed at planting. Foliar apply 7.571 L/Ac or 2 (gal/ac) before detasseling and repeat after pollination.

**COTTON:** Early Season: .947 - 1.894 L/Ac (1-2 qt/ac) in an over the row application after plants reach 4 leaf stage. Mid-Season: 7.571 - 18.93 L/Ac or (2-5 gal/ac) at early bloom and repeat as necessary.

**CUCUMBERS, SQUASH, PUMPKINS, WATERMELONS, CANTALOUPE:** 3.785 - 11.36 L/Ac or (1-3 gal/ac) at early bloom and repeat approximately 4 weeks after bloom application.

**GARLIC:** Spray 3.785 - 7.571 L/Ac or (1-2 gal/ac) directed over row from 10-12 inches high. Make 3-4 applications.

**GRAPES (TABLE):** 3.785 - 7.571 L/Ac or (1-2 gal/ac) when nitrogen needs are evident or an increase in canopy is required to reduce sunburn.

**GRAPES (SEED PRODUCTION):** 3.785 - 5.678 L/Ac or (1-1½ gal/ac) at pre-bloom. 7.571 - 11.36 L/Ac or (2-3 gal/ac) at seed head elongation.

**LETTUCE:** 7.571 - 11.36 L/Ac or (2-3 gal/ac) after thinning. Repeat 14 days later and again 14 days prior to harvest.

**MILO and OTHER SORGHUMS:** May apply up to 11.36 L/Ac or (3 gal/ac) with seed at planting. Foliar apply up to 7.571 L/Ac or (2 gal/ac) at any time extra nutrition is needed.

**MINT (PEPPERMINT, SPEARMINT):** For row or establish mint:

7.571 - 11.36 L/Ac or (2-3 gal/ac) — end of March, early April  
11.36 - 18.93 L/Ac or (3-5 gal/ac)—post flame late April, early May. May be combined with fungicide.

7.571 - 11.36 L/Ac or (2-3 gal/ac)—mid June. Combine with pesticide

11.36 - 18.93 L/Ac or (3-5 gal/ac)—mid July. Combine with pesticide

7.571 - 11.36 L/Ac or (2-3 gal/ac) — Post Harvest. Can be combined with other nutrients. Can be combined with crop protection chemicals when properly buffered. KQ-XRN pH is 8.5-10. Apply in sufficient water, minimum of 75.72 L/Ac or (20 gal/ac) to provide good coverage to foliage.

**ONIONS:** 7.571 L/Ac or (2 gal/ac) when onions reach 6-8 inches repeat during bulb fill, and again in two weeks prior to harvest.

**PEACHES, PLUMS, PRUNES, NECTARINES, APRICOTS:** 3.785 - 5.678 L/Ac or (1- 1½ gal/ac) at bud swell to early bloom

when increase fruit set is desired and repeat in 30 days to maintain increased set. Apply 7.571 - 15.14 L/Ac or (2-4 gal/ac) prior to harvest for improved fruit sizing, firmness and reduction in "green shoulders". Rate dependent upon tree size and conditions. Post Harvest: apply 18.93 - 37.86 L/Ac or (5-10 gal/ac) in 1 or 2 applications.

**PEANUTS:** 11.36 - 18.93 L/Ac or (3-5 gal/ac) at early bloom and repeat as necessary until pods are filled.

**PEARS (BARTLETT):** 3.785 - 5.678 L/Ac or (1-1½ gal/ac) at pre-bloom and repeat every 30 days until 4 weeks prior to harvest. As some varieties (i.e., D'Anjou) are more sensitive under certain conditions, extreme caution should be exercised. Post Harvest: Apply 18.93 - 37.86 L/Ac or 5-10 (gal/ac) in 1 or 2 applications.

**PEPPERS:** 7.571 - 11.36 L/Ac or (2-3 gal/ac) at early bloom and repeat 14 days later to improve fruit set and canopy and reduce sunburn.

**POTATOES:** 7.571 L/Ac or (2 gal/ac) prior to tuberization and at early bloom at 2 gals/acre. A third application of 7.571 L/Ac or (2 gal/ac) 2-3 weeks following bloom spray may be needed through fertigation system. Can be applied in pesticides. Buffering of combinations may be necessary as KQ-XRN is pH stable at 8.5-10.

**SEED CROPS:** 3.785 - 5.678 L/Ac or (1½-2 gal/ac) at early bloom. 3-4 weeks later apply 7.571 L/Ac or (2 gal/ac). 30-60 days prior to harvest apply 7.571 L/Ac or (2 gal/ac) to fill out seed.

**SOYBEANS:** 7.571 - 11.36 L/Ac or (2-3 gal/ac) at early pod. Apply 3.785 - 7.571 L/Ac or (1-2 gal/ac) anytime with your glyphosate.

**SPINACH:** 7.571 - 11.36 L/Ac or (2-3 gal/ac) when adequate foliage. Apply again 7-10 days prior to harvest if double cropping.

**STRAWBERRIES:** 3.785 - 11.36 L/Ac or (1-3 gal/ac) when early bloom and repeat in 14-21 days.

**SWEET CORN:** 7.571 - 11.36 L/Ac or (2-3 gal/ac) at a 12-14 inch height, at early tassel stage, and again at early silk stage.

**TOMATOES:** 7.571 - 11.36 L/Ac or (2-3 gal/ac) at early bloom. Repeat at fruit set and again 15-30 days later. Apply 11.36 - 15.14 L/Ac or (3-4 gal/ac). 3-4 weeks prior to harvest to strengthen canopy and to reduce sunburn.

**WHEAT:** 7.571 - 18.93 L/Ac or (2-5 gal/ac) at flag leaf stage depending on residual soil fertilizer or rainfall, etc. Flag leaf stage according to Feekes Scale is generally the sixth or seventh true leaf on the main stem of the plant. Can be applied with herbicides at 3.785 - 7.571 L/Ac or (1-2 gal/ac). Can also be applied with **Tilt®** in low volume or undiluted.

#### **RECOMMENDED DRIP FERTIGATION RATES:**

**STRAWBERRIES:** 11.36 - 15.14 or (3-4 gal/ac) twice a month for five to six months in California.

**TOMATOES/PEPPERS:** 11.36 - 18.93 L/Ac or (3-5 gal/ac) twice a month for three to four months.

**GRAPES:** 3-5 gals/acre twice a month for three to four months

**LETTUCE:** 11.36 - 18.93 L/Ac or (3-5 gal/ac) at first irrigation and repeat as needed.

**TREES & VINES:** 18.93 L/Ac (5 gal/ac) at least every 30 days in sandy soils. Apply in combination with other drip materials at 25 and 50% ratios to improve fertilizer efficiency.

#### **APPLICATION CHART**

**KQ-XRN 28-0-0 with 72% slow release nitrogen**  
(128 Oz = 2.97lbs. N)

<u>OUNCES OF KQ-XRN</u>	<u>LBS./TOTAL N</u>
11 oz.	1/4 lb. N
16 oz.	1/3 lb. N
22 oz.	1/2 lb. N
28 oz.	2/3 lb. N
33 oz.	3/4 lb. N
44 oz.	1 lb. N

#### **TANK MIXING:**

Add all water.

Recirculate

Add liquid flowable materials

Add soluble powders.

Add KQ-XRN.

#### **Benefits of KQ-XRN:**

- Non-Corrosive and Non-Burning
- Great mixing flexibility
- Highly soluble
- Low salt index

#### **STORAGE AND BLENDING INSTRUCTIONS:**

Store unblended material in closed container between 0 F and 90 F. Do not store in unmarked containers. Dilute with water and blend with other nutrients and pesticides only at the time of application and in the amounts required.

**PRECAUTIONS:** Use caution when mixing KQ-XRN with phosphate, sulfur, humic acid and products containing glyphosate, a chemical foaming reaction may occur. Kugler recommends always performing a simple jar test when mixing KQ-XRN with any pesticide or fertilizer.

#### **CONDITIONS OF SALE**

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose on this label when used in accordance with directions under normal conditions of use; but neither this warranty or any other warranty of merchantability of fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to label instructions not reasonably foreseeable to the seller; and buyer assumes the risk of any such use.