

K-ROW 23™

Application Guide



Tessenderlo KERLEY

0-0-23 with 8%S

GUARANTEED ANALYSIS

Soluble Potash (K ₂ O)	23%
Total Sulfur (S).....	8%

Density:

Density, lbs/gallon @ 60°F	11.7
Volume, gallons/ton	171.0

GENERAL INFORMATION

K-ROW 23 is a chloride free, clear to slightly yellow liquid solution containing 23% K₂O and 8 % plant available sulfur. Each gallon of K-ROW 23 contains approximately 2.7 lbs of potassium (K₂O) and 1 lb sulfur (S). K-ROW 23 is a seed safe product developed by TKI for starter fertilizer applications (see recommendations). University tests have shown that K-ROW 23 is seed safe when used at recommended rates. In fact, it is one of the safest materials tested in germination trials.

K-ROW 23 can be blended in any ratio with 10-34-0 or 11-37-0 to provide potassium and sulfur, critical nutrients, especially in minimum or no-tillage conditions. Blends with UAN solution should be jar tested before making large quantities. UAN blends should contain enough water to equal the lesser amount of one of these products to reduce crystal formation. K-ROW 23 can be acidified to a pH of 5.6 to form a stable acidic fertilizer for high pH soils.

POP-UP AND STARTER FERTILIZERS

POP-UP FERTILIZER:

Corn: For Pop-up or in-furrow placement, K-ROW 23 can be applied along with ammonium polyphosphate (APP) in any combination.

In-furrow application of blends of K-ROW 23 with 10-34-0 should not exceed:

- 80 lbs per acre (7.0 gal/acre) of mixed product in-furrow for heavy clay soils with no more than 5 gal/acre of APP.
- 40 lbs/acre (3.5 gal/acre) of mixed product in-furrow for sandy soils
- 40 lbs/acre (3.5 gal/acre) of mixed product when soil conditions are dry.
- K-ROW 23 weighs 11.7 lbs/gallon, the same as 10-34-0 per gallon. If other fertilizers are added to the suggested rates above, then a test trial should be done the first year before making large applications.
- By itself, apply 1 to 5 gal/acre of K-ROW 23 with the seed. Sandy or dry soils conditions reduce this rate by 50%.

- Wheat: Apply 1 to 3 gals/acre by itself or in combination with APP. Follow established rates for N + K with the seed for your area and/or soil type.
- When using 11-37-0, adjust the amount according to the above suggested rates.

STARTER FERTILIZER (2 x 2 or 2 x 0):

Corn: Apply 1 to 8 gals/acre of K-ROW 23 with or without APP in a 2 X 2 (2 inches below and 2 inches to the side of the seed row) or 2 X 0 (2 inches to the side of the seed row on the surface) placement. For sandy or dry soils reduce rate by 50% when moisture is limiting.

Soybeans: Apply 1 to 6 gals/acre of K-ROW 23 in a 2 X 2 (2 inches below and 2 inches to the side of the seed) or 2 X 0 (2 inches to the side of the seed row on the soil surface) placement.

SOME EXAMPLES OF STARTER FERTILIZER BLENDS		
Blend	Products	Pounds per Ton
6-21-6-2S	10-34-0	1235
	K-ROW 23	522
	Water	243
7-25-6-2S	10-34-0	1470
	K-ROW 23	522
	Water	8
5-17-11-4S	10-34-0	1000
	K-ROW 23	1000
10-13-5-1.75S	UAN 32	387
	10-34-0	765
	K-ROW 23	435
	Water	413

Always do a jar test when mixing unfamiliar blends.

OTHER APPLICATIONS

K-ROW 23 can be soil injected or deep banded by itself or with nitrogen and phosphorus to supply crops with N, P, K and S requirements for the season. Deep banding can improve nutrient use efficiency by reducing nutrient loss due to erosion and soil fixation. K-ROW 23 can also be broadcast sprayed on soil surface or surface banded between rows to help meet potassium and sulfur requirements. Follow soil and tissue test recommendations to apply the proper amount of potassium and sulfur.

CAUTION (APPLICATION):

- Do not apply K-ROW 23 in drip or micro-irrigation systems where calcium and magnesium levels in the irrigation water are greater than 100 ppm due to potential plugging of emitters.
- Do not acidify K-ROW 23 below a pH of 5.6.

TECHNICAL DATA INFORMATION

K-ROW 23: 0-0-23+8%S

Typical Properties

Specific Gravity	1.40
pH	7.70 to 8.10
Appearance	Clear to Slightly Yellow
Salting-Out Temperature, °F	< 10.00
Actual Salt Index	46.00

Formulation and Application Factors

Density, lbs/gallon	11.66
Volume, gallons/ton	171.50
Pounds K ₂ O per gallon	2.70
Pounds S per gallon	0.95

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