



Nova

PeKacid[®]



PeKacid is an excellent choice of fertilizer when your crops need a boost of water-soluble phosphorus and potassium, and it is particularly well-known for being a "block buster"

0 | 60 | 20 |

N P₂O₅ K₂O

Description

PeKacid[®] 0-60-20 is ICL's highly acidic (pH=2.2), fully-soluble phosphorus and potassium fertilizer formulated for fertigation applications for calcareous soils and/or high bicarbonate content irrigation waters. PeKacid has anticlogging action and acidifying power, providing blockage-free irrigation. It reduces the pH of the irrigation water, which helps to prevent precipitates, keeping irrigation systems clean. Therefore, PeKacid replaces the conventional application of phosphoric acid, resulting in an easier, safer and more effective fertigation. Easy to dissolve, it's ideal in a fertigation system for your open-field or soilless crops. You could also use it in a tank mix with calcium and magnesium, thanks to its acidity. It's low in sodium, free of chloride, and highly soluble at 670 g/L water (at 20°C).

Guaranteed analysis

Oxide

N	Total Nitrogen	0%
P ₂ O ₅	Phosphorus Pentoxide	60%
	Water soluble (P ₂ O ₅)	60%
K ₂ O	Potassium Oxide	20%
	Water Soluble (K ₂ O)	20%

Benefits

- Rich source of phosphorus and potassium
- Acidifying effect prevents clogged lines and can clean fertigation systems
- Easy to dissolve
- PeKacid is a non-hazardous substance. It can be used, stored, and transported safely, without risks from spillage.

Application rates

Recommended dilution rate, for stock solutions: 10-15 kg / 100 L water

Before adjusting the rate or any other variables, conduct a small-scale trial first. As circumstances can vary and the application of our products is beyond our control, ICL cannot be held responsible for any adverse results

How to use

- 1 PeKacid is suitable for fertigation and foliar application.
- 2 Compatible with most soluble fertilizers, PeKacid provides the opportunity to create many different fertigation formulas.
- 3 PeKacid can be blended with other soluble fertilizers to create ready-to-use formulas.
- 4 The acidity of PeKacid supports the creation of formulations that contain phosphorous and some calcium or magnesium in the same tank. This is a rare property among phosphorous fertilizers.
- 5 The very low sodium content makes PeKacid an excellent candidate for fertigation and foliar nutrition for delicate and sensitive crops.
- 6 Its acidifying effect will prevent clogging in your fertigation lines and regulate the pH level in soil solution for better nutrient uptake.
- 7 Depending on the amount of bicarbonate HCO_3 that needs to be reduced, Nova PeKacid might be enough, eliminating the need for additional acidifiers.
- 8 Nova PeKacid has a potent acidifying effect: 0.24 g will buffer 1 mmol (61 mg) HCO_3 or 1 g will buffer 4.2 mmol (256 mg) HCO_3 .
- 9 Nova PeKacid can be used briefly to clean pipes. We recommend doing this between cultures. Put 3.5 to 5 kg/m³ of Nova PeKacid in the solution and run the system for 15 minutes. Then rinse the system with clean water for 15 minutes.
- 10 If you need more information, please contact your technical support.

Amounts of Nova PeKacid and acids needed to neutralize bicarbonates in irrigation water

Bicarbonates in source water	Bicarbonates in source water	Bicarbonates to be neutralized*	Nova PeKacid	Phosphori acid 59%
				1.632
meq/L	ppm	meq/L	g/m ³	
0.5	31	0	0	0
1.0	61	0.5	125	36.25
1.5	92	1.0	250	72.50
2.0	122	1.5	375	108.75
2.5	153	2.0	500	145.00
3.0	183	2.5	625	181.25
3.5	214	3.0	720	208.80
4.0	244	3.5	875	253.75
4.5	275	4.0	1,000	290.00
5.0	305	4.5	1,125	326.25

* It is not necessary to neutralize 100% to make the bicarbonate problem insignificant. Allowing for some residual bicarbonates provides a margin of error and avoids the risks associated with over-acidification.

Dilution table for preparing soluble fertilizer solution

Water (L)		1	10	50	100	500	1,000	1,500	2,000
Fertilizer dilution	1:5	0.2	2	10	20	100	200	300	400
rate (kg)	1:10	0.1	1	5	10	50	100	150	200

Water (L)	1	10	50	100	500	1,000	1,500	2,000
1:20	0.05	0.5	2.5	5	25	50	75	100
1:30	0.033	0.3	1.66	3.33	16.66	33.33	50	66.66
1:40	0.025	0.25	1.25	2.5	12.5	25	37.5	50
1:50	0.02	0.2	1	2	10	20	30	40
1:60	0.016	0.16	0.83	1.66	8.33	16.66	25	33.33
1:70	0.014	0.142	0.71	1.42	7.14	14.2	21.4	28.57
1:80	0.012	0.125	0.625	1.25	6.25	12.5	18.75	25
1:90	0.011	0.11	0.55	1.11	5.55	11.11	16.66	22.22
1:100	0.01	0.1	0.5	1	5	10	15	20

How to calculate dosage

Example: To prepare a 1:20 working solution for 100 L of water, divide 100 L by 20. This gives you 5, meaning you'll need 5 kg of fertilizer for 100 L of water.

Example: To prepare a 1:15 working solution for 150 L of water, divide 150 L by 15. This gives you 10, meaning you'll need 10 kg of fertilizer for 150 L of water.

Attention

Trial first on a small scale before changing the rate, application, or any other variables. As circumstances can differ and as the application of our products is beyond our control, ICL cannot be held responsible for any adverse results. Contact your ICL advisor for more detailed advice.

<https://icl-growingsolutions.com/agriculture/products/nova-pekacid/>

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