



JumpStart® Wettable Powder Inoculant

Improve phosphate availability to support early vigor in alfalfa, canola, chickpea, dry bean, lentil, mustard, pea, sorghum, soybean, sugar beet, sunflower and sweet clover.

JumpStart® Wettable Powder Inoculant contains the naturally occurring soil fungus *Penicillium bilaiae*. It grows along plant roots releasing nutrients like phosphate bound in the soil, making them more available for the crop to use. *Penicillium bilaiae* does not replace the need for phosphate fertilizer, but does provide crops access to more nutrients for higher yield potential.

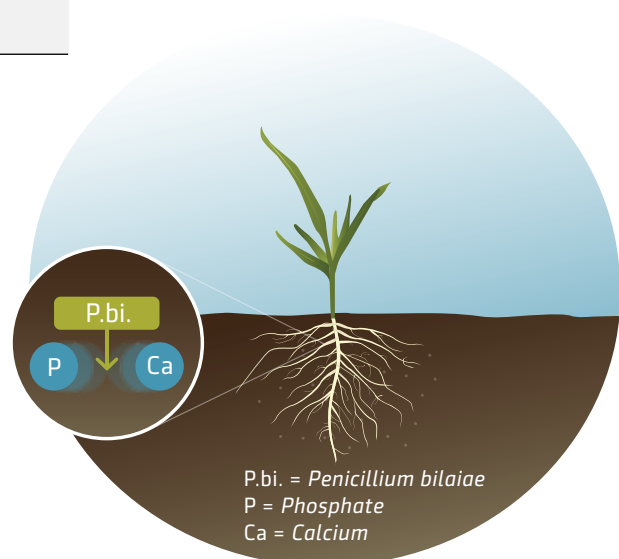
BENEFITS OF USING JUMPSTART WETTABLE POWDER INOCULANT

- Improves phosphate availability which:
 - Enhances early vigor
 - Bolsters root and shoot growth, supporting greater stress tolerance and earlier, more uniform plant development
 - Improves yield potential
- Improved plant nutrition enables plants to better handle environmental pressures
- Better potential for winter wheat survival through enhanced root systems
- Active in cool soil temperatures when phosphate is less available, which can help get the crop off to an early start

HOW THE TECHNOLOGY WORKS

Freeing Phosphate

Penicillium bilaiae releases bound mineral forms of soil and fertilizer phosphate, making it more available for the plant to use.





PRODUCT DETAILS

Packaging may vary.



JumpStart® Wettable Powder Inoculant

Active Ingredients	Packaging	Application Rate	Case Treats
720 million (7.2 x 10 ⁸) cfu/g <i>Penicillium bilaiae</i>	4 x 40 bu (2.0 oz/57 g)	Varies (see below)	160 bu = 9,600 lbs of seed 280 bu = 16,800 lbs of seed

Always read and follow label directions

2.0 oz (57 g) container

Crop	Seed Inoculated by 57 g/2.0 oz	Approximate Water Volume	Planting Window (Bare Seed)
Wheat	40 bu = 2,400 lbs (1,090 kg)	7.6 quarts (7.2 liters)	30 days
Pea	70 bu = 4,200 lbs (1,900 kg)	6.1 quarts (6.0 liters)	30 days
Chickpea	55 bu = 3,300 lbs (1,500 kg)	4.6 quarts (4.0 liters)	30 days
Dry Bean ¹	40 bu = 2,400 lbs (1,100 kg)	3.9 quarts (3.5 liters)	30 days
Lentil	40 bu = 2,400 lbs (1,100 kg)	3.9 quarts (3.5 liters)	30 days
Soybean	50 bu = 2,500 lbs (1,135 kg)	3.9 quarts (3.5 liters)	30 days
Sunflower ²	230 lbs (100 kg)	2.1 quarts (2.0 liters)	30 days
Sorghum	300 lbs (136 kg)	1.9 quarts (1.8 liters)	30 days
Alfalfa/Sweet Clover	150 lbs (68 kg)	1.6 quarts (1.5 liters)	7 days
Canola/Mustard	140 lbs (63 kg)	1.6 quarts (1.5 liters)	60 days
Sugar Beet	5 units	1.0 quarts (1.0 liters)	7 days

14.0 oz (400 g) container

Crop	Seed Inoculated by 400 g/14.0 oz	Approximate Water Volume	Planting Window (Bare Seed)
Wheat	280 bu = 16,800 lbs (7,620 kg)	53.5 quarts (50.5 liters)	30 days
Pea	490 bu = 29,400 lbs (13,336 kg)	43.5 quarts (41 liters)	30 days
Chickpea	385 bu = 23,100 lbs (10,480 kg)	32.5 quarts (31 liters)	30 days
Dry Bean	280 bu = 16,800 lbs (7,620 kg)	28.0 quarts (26.5 liters)	30 days
Lentil	280 bu = 16,800 lbs (7,620 kg)	28.0 quarts (26.5 liters)	30 days
Soybean	350 units = 17,500 lbs (7,938 kg)	28.0 quarts (26.5 liters)	30 days
Sunflower	1,610 lbs (730 kg)	15.5 quarts (15 liters)	30 days
Sorghum	2,100 lbs (953 kg)	13.5 quarts (13 liters)	60 days
Alfalfa/Sweet Clover	1,050 lbs (476 kg)	11.5 quarts (11 liters)	7 days
Canola/Mustard	980 lbs (445 kg)	11.5 quarts (11 liters)	60 days
Sugar Beet	35 units	7.0 quarts (6.5 liters)	7 days

¹ Use with pinto, great northern, black, navy, kidney, red and pink bean.

² When treating confectionary sunflowers, increase water rates to assist with proper coverage.

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Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

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