

Excalibre

Encapsulated Inoculant for Soybeans

TECHNICAL INFORMATION

Excalibre Package Size:	One package contains 10 oz. by weight (284 grams)	Excalibre Formulation/ Specification:	Dry powder 5.5 x 10 ¹⁰ <i>Bradyrhizobia</i> cfu/g
Excalibre Application Rate:	0.05 oz. (by weight) per 140,000 units soybean seed	One Package Excalibre Treats:	200 x 140k units soybean seed
Extender Pack Size:	One pack contains 100 fl. oz.	Extender Formulation:	Starch-based liquid polymer
Extender Application Rate:	0.5 fl. oz. (by volume) per 140,000 soybean seed. Extender should always be mixed and applied with Excalibre	One Package Extender Treats:	200 x 140k units soybean seed
Case Contains:	2 x 10 oz. packs per case Excalibre 2 x 100 fl. oz. packs per case Extender	One Case Treats:	400 x 140k units soybean seed

APPLICATION DIRECTIONS

Application Directions:	<p>Excalibre is a suspendable powder designed for use in a liquid tank mix in commercial seed treatment systems with good agitation to maintain product suspension. For good seed coverage, Agrauxine Corp. generally recommends a minimum of 2.5 oz. liquid per 140,000 units of seed, in any combination of non-chlorinated water and approved liquid seed treatments. Experienced seed treaters may choose to decrease the total volume applied.</p> <ol style="list-style-type: none"> 1. Remove or replace screens. Maintain agitation at all times. (Contact Agrauxine for recommendations). 2. Measure Excalibre by weight only, measure extender by volume only. 3. Please refer also to "detailed mixing and application instructions" on the reverse of this sheet. 4. For best results do not apply with atomization and use separate mix tank for inoculant only. 	
Tank Mix Time Restrictions:	<p>To maintain inoculants viability, there is a maximum time Excalibre can be kept in the mix tank:</p> <ol style="list-style-type: none"> 1. Excalibre alone or with non-chlorinated water should be applied to seed within 24 hours. 2. With approved seed treatments, Excalibre should be applied to seed within 4 hours. 	
Compatibility with Seed Treatments: <small>Trademarks of their respective owners or manufacturers</small>	Excalibre and Extender only, or co-applied with: Acceleron, ApronMaxx RFC, ApronMaxx RTA, CruiserMaxx Pak or Gaucho SB Flowable*	Maximum planting window is 120 days after seed is treated and seed reaches 50° F
	Excalibre and Extender co-applied with: Trilex AL Flowable, Allegiance with Trilex FL*, Innovate System, Rancona, Senator	Maximum planting window is 90 days after seed is treated and seed reaches 50° F
	Excalibre and Extender co-applied with: Soy-Gard* products	Maximum planting window is 70 days after seed is treated and seed reaches 50° F
New Soybean Ground or Adverse Crop Conditions :	<p>EXCALIBRE RECOMMENDATIONS FOR ADVERSE CONDITIONS OR NEW "VIRGIN" SOYBEAN FIELDS: If soil has not hosted the specific legume for more than three (3) years; Soil pH is less than 5.8 (The pH should be adjusted by liming prior to inoculation); Soil pH is more than 8.5; Soil organic matter is less than 1%; Drought or flooding has occurred; Topsoil conditions exceed 80° F; Soil erosion, or with the use of soil treatments and chemicals injurious to soil bacteria and inoculants. To Maximize Soybean Yield Potential: When planting soybeans under the conditions listed above, Agrauxine recommends a double (2X) rate of inoculants.</p> <p>Follow these recommendations: If using an Excalibre product, achieve a 2X inoculants rate as follows:</p> <p>A. Apply a 1X rate of Excalibre no more than 30 days prior to planting.</p> <p>B. Additionally, apply at planting, a 1X rate of America's Best Inoculant formulation: ABI Sterile Peat.</p> <p>Please contact your representative at 877-617-2461 for a specific recommendation.</p>	

* Trademarks or Registered Trademarks of their respective owners, marketers or manufacturers.



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DETAILED MIXING & APPLICATION INSTRUCTIONS

Excalibre Encapsulated Inoculant is a wettable powder combination containing a highly concentrated formulation of rhizobia, using a small amount of product to achieve high active ingredient seed loading, while keeping the volume of seed-bridging liquid to a minimum.

MIXING ORDER:

Best results are achieved when bucket slurring any needed water, adding Excalibre, mixing completely, then adding the extender polymer.

- (1) Calculate batch quantities for all mix components
- (2) Measure and add liquids to a mix container or treatment tank
- (3) Measure and add Excalibre powder to the mix container or treatment tank containing liquids
- (4) Mix or stir contents in the container, then only after powder has dispersed, add extender
- (5) Agitate and add to seed treatment tank if in a separate container
- (6) Maintain agitation as long as Excalibre is in the treatment tank
- (7) Adhere to tank mix time restrictions listed in "Technical Information"

MEASURE EXCALIBRE BY WEIGHT:

If an accurate scale is not available, contact your Agrauxine Corp. representative or call 877-617-2461, and a scale will be supplied.

EXTENDER POLYMER:

The extender polymer included with Excalibre is an integral part of the Excalibre system and must be used in accordance with label in instructions for proper results.

AGITATION:

Excalibre is a highly dispersible wettable powder. Good mix tank agitation is necessary to maintain suspension. If the mix tank does not have agitation, Agrauxine Corp. will easily and economically provide and install a **recirculation kit** to most popular treaters.

IN-LINE SCREENS:

Most typical-mesh in-line screens will require simple modification.

- (1) Remove line screens entirely
 - Take care to prevent soybean seed from entering the mix tank and plugging hoses.

Or:

- (2) Install 16 mesh screens. This size mesh will allow Excalibre to pass through
 - For screens contact your Agrauxine Corp. representative or call 877-617-2461. Agrauxine Corp. will supply a replacement screen with cartridge at no charge. (Be sure to know your line diameter.)

SPRAY NOZZLES:

Excalibre suspension **will not** successfully flow through typical seed treater nozzles including flat fans. Avoid the use of a spray nozzles with Excalibre. Agrauxine Corp. can easily and economically provide and install an alternative for most popular treaters spray nozzles.

HOSE LINES:

Excalibre may settle out in hose lines with a combination of large diameter hoses and long hose length (for example, 20 feet of 1 inch diameter hose). If this occurs, shorten the hose length as is possible, and change the hose to a smaller diameter to increase the velocity of material flow. Recalibrate pump. Contact your Agrauxine Corp. representative or call 877-617-2461 for tech support.