



Excalibre is an innovative encapsulated soybean seed inoculant that contains a blend of three proprietary strains of bacteria—the same versatile package as is found in the industry-leading **America’s Best Inoculant®** products. It has been developed and proven effective by the best scientists in Bradyrhizobia genetics. This new patented encapsulation technology is the first of its kind in agriculture and offers a safe, easy to use way to significantly increase crop yields. Excalibre is a highly concentrated product that offers efficiency, convenience and production benefits to the producer and seed treater alike.

Technical Information

Excalibre Package Size:	One foil pack contains 16 oz. (by weight)	Excalibre Formulation and Specification:	Dry powder 55.0 billion Rhizobia per gram
Excalibre Application Rate:	0.2 oz. (by weight) per 100 lbs. soybean seed	One Package Excalibre Treats:	160 x 50 lb. units seed (8,000 lbs.) (Achieves seed loading rate of 1 million Rhizobia cells/seed)
Extender Pack Size	One pack contains 80 oz. (by volume)	Extender Formulation:	Starch-based liquid polymer
Extender Application Rate:	1 oz. per 100 lb. soybean seed Extender should always be mixed and applied with Excalibre	One Package Extender Treats:	160 x 50 lb. units seed (8000 lbs.)
Case Contains:	4 x 16 oz. packs per case Excalibre 4 x 80 oz. packs per case Extender	One Case Treats:	640 x 50 lb. units seed (32,000 lbs.)
Applications:	<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, ABM generally recommends a minimum of 5 oz. liquid per 100 lbs. seed, in any combination of non-chlorinated water and approved liquid seed treatments. (See chart on reverse.) 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 ABM for recommendations). 2. Measure Excalibre by weight (recommended) or by volume per chart on reverse side. 3. Gradually pour Excalibre into non-chlorinated water or approved liquid seed treatments. 4. Please refer to “detailed mixing instructions” found in every case of Excalibre. 		
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 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:	<p>Excalibre is tank-mix compatible with certain seed treatments and can be co-applied several days prior to planting. Follow these guidelines:</p>		
	Excalibre and Extender only, or co-applied with: ApronMaxx RFC, ApronMaxx RTA, Warden RTA, CruiserMaxx Pak or Gaucho SB Flowable*	Plant within 120 days after treatment	
	Excalibre and Extender co-applied with: Trilex AL Flowable, Allegiance with Trilex FL*	Plant within 90 days after treatment	
<small>Trademarks of their Respective owners or manufactures</small>	Excalibre and Extender co-applied with: SoyGard*, Soygard L Multipack, ApronMaxx Bean Pak*	Plant within 70 days after treatment	
New Soybean Ground or Adverse Crop Conditions	<p>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, ABM recommends a double (2X) rate of inoculants. Follow these recommendations. If using an Excalibre product, achieve a 2X inoculants rate as follows:</p> <ol style="list-style-type: none"> a. Apply a 1X rate of Excalibre no more than 30 days prior to planting. b. Additionally, apply at planting, a 1X rate of an America’s Best Inoculant formulation: ABI Sterile Peat, ABI Sterile Liquid, ABI MegaPack, or Graph-Ex <p>Please contact your ABM representative at 877-617-2461 for a specific recommendation.</p>		

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



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Application Rates Typical Calculations	Lbs. seed treated	50-lb units seed treated	Cwt. seed treated	Excalibre				Extender [†]		Water, Non-chlorinated (if no other treatment is being applied) [†]		NOTES (For your convenience)
				By WEIGHT [†] (recommended)		By VOLUME [†] (approximate)						
1 lb. Excalibre package	8,000	160	80	16	oz-wt. [*]	48	oz-vol. [†]	80	oz-vol. [†]	320	oz-vol. [†]	
100 lbs. (cwt) seed	100	2	1	0.2	oz-wt.	0.6	oz-vol.	1.0	oz-vol.	4	oz-vol.	
50 lb. unit seed	50	1	0.5	0.1	oz-wt.	0.3	oz-vol.	0.5	oz-vol.	2	oz-vol.	
40-unit mini-bulk	2,000	40	20	4	oz-wt.	12	oz-vol.	20	oz-vol.	80	oz-vol.	
50-unit mini-bulk	2500	50	25	5	oz-wt.	15	oz-vol.	25	oz-vol.	100	oz-vol.	
Other Sample Calculations	Lbs. seed treated	50-lb units seed treated	Cwt. seed treated	Excalibre				Extender [†]		Water Non-chlorinated (if no other liquid treatment is being applied) [†]		
				By WEIGHT [†] (recommended)		By VOLUME [†] (alternate method)						
Lbs. seed:	500	10	5	1	oz-wt.	3	oz-vol. [†]	5	oz-vol. [†]	20	oz-vol. [†]	
	1,000	20	10	2	oz-wt.	6	oz-vol.	10	oz-vol.	40	oz-vol.	
	1,500	30	15	3	oz-wt.	9	oz-vol.	15	oz-vol.	60	oz-vol.	
Lbs. seed:	2,000	40	20	4	oz-wt.	12	oz-vol.	20	oz-vol.	80	oz-vol.	
	2,500	50	25	5	oz-wt.	15	oz-vol.	25	oz-vol.	100	oz-vol.	
	3,000	60	30	6	oz-wt.	18	oz-vol.	30	oz-vol.	120	oz-vol.	
Lbs. seed:	3,500	70	35	7	oz-wt.	21	oz-vol.	35	oz-vol.	140	oz-vol.	
	4,000	80	40	8	oz-wt.	24	oz-vol.	40	oz-vol.	160	oz-vol.	
	4,500	90	45	9	oz-wt.	27	oz-vol.	45	oz-vol.	180	oz-vol.	
Lbs. seed:	5,000	100	50	10	oz-wt.	30	oz-vol.	50	oz-vol.	200	oz-vol.	
	6,000	120	60	12	oz-wt.	36	oz-vol.	60	oz-vol.	240	oz-vol.	
	7,000	140	70	14	oz-wt.	42	oz-vol.	70	oz-vol.	280	oz-vol.	
1 package Excalibre plus 1 package Extender	8,000	160	80	16	oz-wt.	48	oz-vol.	80	oz-vol.	320	oz-vol.	
	9,000	180	90	18	oz-wt.	54	oz-vol.	90	oz-vol.	360	oz-vol.	
Lbs. seed:	10,000	200	100	20	oz-wt.	60	oz-vol.	100	oz-vol.	400	oz-vol.	
Application Rates Typical Calculations	Lbs. seed treated	50-lb units seed treated	Cwt. seed treated	Excalibre				Extender [†]		Water, Non-chlorinated (if no other treatment is being applied) [†]		
				By WEIGHT [†] (recommended)		By VOLUME [†] (approximate)						

*Measured weight in ounces.

[†]Measured in fluid ounces. NOTE: 60 ml. plastic measuring cup in each case of Excalibre holds approximately 2 oz. by volume.

ExcalTech10



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