

PRODUCT: EXTRALIGNUM 250 BASIC / PLUS / TOP

DESCRIPTION: Extralignum 250 is an innovative high-quality wood fiber that represents a valid, ecological and sustainable alternative to replace other organic materials limitedly available for the production of substrates. The unique properties of Extralignum ensure optimal performance for container plant development. Its technical characteristics and a specific weight of 250 Kg/mc make it suitable for use in any type of mixture up to 30% by volume, while maintaining extremely low shrinking percentages in the case of medium-long cycle crops. The product is available in the BASIC version (as it is), in the PLUS versions with slow release nitrogen added to 1 gr / l to ensure stability and minimize N-competition due to the microbial degradation of the cellulosic fractions and in the TOP version, added with 2 gr / l of slow release nitrogen, to ensure superior growth performance compared to other products.



TECHNICAL SPECIFICATIONS

Tecnical parameter	value	unit measure	reference value	method
particle size fraction 4-10 mm	4	% m/m s.s	-	UNI EN 15428:2008
particle size fraction 2-4 mm	47	% m/m s.s	-	UNI EN 15428:2008
particle size fraction 1-2 mm	36	% m/m s.s	-	UNI EN 15428:2008
particle size fraction < 1 mm	13	% m/m s.s	-	UNI EN 15428:2008
plastic, glass and metals ≥ 2 mm	0,00	% s.s.	≤0,5	UNI 10780:1998 App. A.2.2
inert lithoid ≥ 5 mm	0,00	% s.s.	≤5	UNI 10780:1998 App. A.2.2
humidity	45,7	% m/m	≤50	UNI EN 13040:2008
pH in H2O	4,6	unità di pH	6-8,5	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
conductivity	0,10	dS/m	-	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
salinity	2,30	meq/100g	-	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
biological organic carbon (TOC)	47,6	% s.s.	≥40	DM 21/12/00 Suppl. n. 6 GU 21 26/01/2001
total nitrogen	0,66	% s.s.	-	II SS n. 4 GU 15/01/2004 met. 2.6.1 (par. 7.1.2)
mineral nitrogen	0,022	% s.s.	-	II SS n. 4 GU 15/01/2004 met. 2.2.3 + 2.1
organic nitrogen in% N total	97	% di N total	≥80	II SS n. 4 GU 15/01/2004 met. 2.6.1 (par. 7.1.2)
C / N ratio	72	-	-	DM 21/12/00 Suppl. n. 6 GU 21 26/01/2001
total Pb	<5	mg/kg s.s.	≤140	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
total Cd	<0,5	mg/kg s.s.	≤1,5	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
total Ni	<5	mg/kg s.s.	≤100	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
total Zn	7	mg/kg s.s.	≤500	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
total Cu	11,3	mg/kg s.s.	≤230	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
total Hg	<0,1	mg/kg s.s.	≤1,5	UNI EN 13657:2004 + UNI EN 16170:2016
Cr VI	<0,5	mg/kg s.s.	≤0,5	DM 8/05/2003 Suppl. 8 GU 116 21/05/03
salmonella (5 replica 25g tq)				
> n. di replica result = absent	5		=5	UNI 10780 App. H:1998 (mod. C.dry)
escherichia coli (5 replica 1g tq)				
>n. replica with result ≤ 1000	5		= 4-5	D.lgsn1337del27/01/14All. Suppl.12-met.14 (C.dry)
>n. replica with result ≥ 5000	0		=0	
Lepidium germination index	95	%	≥60	UNI 10780 App. K:1998 (diluiz. 30%)
dry density appearance	139	kg/m3	60-250	UNI EN 13041:2012
organc matter	96,20	% m/m s.s.	-	UNI EN 13040:2008 par 9 a)
total porosity	91,13	% v/v	85-95	UNI EN 13041:2012
pH	4,6	unità di pH	4,5-7	UNI EN 13040:2008 + UNI EN 13037:2012
electric conducibility	7	mS/m	<50	UNI EN 13040:2008 + UNI EN 13038:2012
electric conducibility	0,07	dS/m		
OUR	15,2	mmol O2/kg S.O./h	-	UNI EN 16087-1:2012
test in Petri dishes (direct contact method)				UNI EN 16086-2:2012
average germination rate (AGR %)	- 93,00 %			
average root length (ARLP mm)	- 18,88 mm			
Radical length index (RI %)	164,57 %	Vitality index ML (MLV %)	138,77 %	
commercial bulk density	250	g/l		UNI EN 12580:2014
Water retention index	35	% v/v		UNI EN 13041:2012

Source: MAC Minoprio Analisi e Certificazioni



Natural Tomorrow

Saviolife is the Life Science Business Unit of #GruppoSaviola specialized in B2B products for the agro-industry: slow release fertilizers, bio stimulant plant extracts and wood fibers for substrates. Saviolife offers sustainable alternatives and value through products able to reduce environmental impacts being completely originated from circular economy logics, protecting life and environment. Saviolife includes Sazolene®, a range of nitrogen slow release fertilizers with very high efficiency for foliar and soil application, Vegastim®, a range of bio stimulant based on plant extracts to increase tolerance to abiotic stresses such as salinity and water stress and the new Extralignum® wood fiber range of products, a high quality alternative and sustainable organic raw material for the substrate industry.

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