saviolife

EXTRALIGNUM®
The Alternative Fiber

PRODUCT: EXTRALIGNUM 100 BASIC/PLUS/TOP

DESCRIPTION: Extralignum 100 is an innovative high-quality wood fiber that represents a valid, ecological and sustainable alternative to replace other organic materials available for the production of substrates and topsoils. The unique properties of Extralignum ensure optimal performance for container plant development. Its technical characteristics and a specific weight of 100-110 Kg/ mc make it particularly suitable for creating porosity and structure, while maintaining the volume and softness of the final mixture according to the desired product to be obtained. The product is available in the BASIC version (as it is), in the versions "PLUS" added with slow release nitrogen from methylene-urea (1 gr/lt) to ensure stability of the final substrate and minimize N-competition due to the microbial degradation activity of the cellulosic fractions or in the version "TOP", added with 2 gr / l of slow release nitrogen, to ensure superior performance compared to other products.

TECHNICAL SPECIFICATIONS

Tecnical parameter	value	unit measure	reference value	method
particle size fraction 4-10 mm	**32**	% m/m s.s	-	UNI EN 15428:2008
particle size fraction 2-4 mm	**40**	% m/m s.s	-	UNI EN 15428:2008
particle size fraction 1-2 mm	**10**	% m/m s.s	-	UNI EN 15428:2008
particle size fraction < 1 mm	**18**	% 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	44,7	% m/m	≤50	UNI EN 13040:2008
pH in H2O	**4,9**	unità di pH	6-8,5	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
conductivity	0,12	dS/m	-	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
salinity	2,71	meq/100g	-	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
biological organic carbon (TOC)	**49,6**	% s.s.	≥40	DM 21/12/00 Suppl. n. 6 GU 21 26/01/2001
total nitrogen	**0,47**	% s.s.	-	II SS n. 4 GU 15/01/2004 met. 2.6.1 (par. 7.1.2)
mineral nitrogen	**0,009**	% s.s.	-	II SS n. 4 GU 15/01/2004 met. 2.2.3 + 2.1
organic nitrogen in% N total	**97,9**	% di N total	≥80	II SS n. 4 GU 15/01/2004 met. 2.6.1 (par. 7.1.2)
C / N ratio	**105,5**	-	-	DM 21/12/00 Suppl. n. 6 GU 21 26/01/2001
total Pb	**<1**	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	**<2**	mg/kg s.s.	≤100	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
total Zn	**10,15**	mg/kg s.s.	≤500	DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220
total Cu	**6,78**	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	**<0,1**	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	**86**	%	≥60	UNI 10780 App. K:1998 (diluiz. 30%)
dry density appearence	**90**	kg/m3	60-250	UNI EN 13041:2012
organc matter	**99,20**	% m/m s.s.	-	UNI EN 13040:2008 par 9 a)
total porosity	**94,19**	% v/v	85-95	UNI EN 13041:2012
pH	**5,1**	unità di pH	4,5-7	UNI EN 13040:2008 + UNI EN 13037:2012
electric conducibility	**5**	mS/m	<50	UNI EN 13040:2008 + UNI EN 13038:2012
electric conducibility dS/m	0,05			
OUR	**20,6**	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 %) - 90,00 %				
average root length (ARLP mm) - 20,81 mm				
Radical length index (RI %) 154,18 % Vitality index ML (MLV %) 138,77 %				
commercial bulk density	**100**	g/l		UNI EN 12580:2014
Water retention index	35	% v/v		UNI EN 13041:2012

Source: MAC Minoprio Analisi e Certificazioni

GRUPPO MAURO SAVIOLA
The Eco-Ethical Company

since 1963

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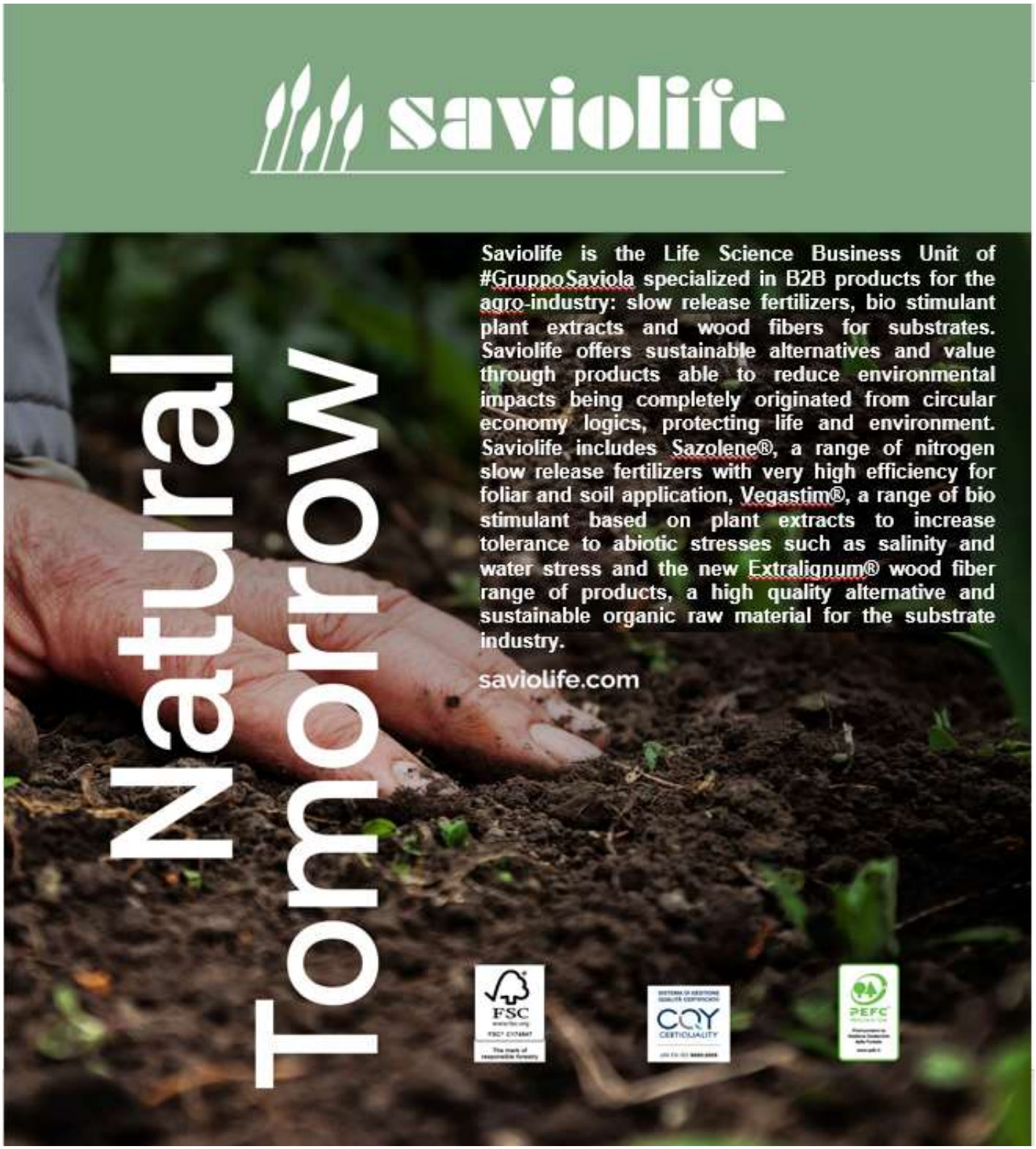

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