saviolife

EXTRALIGNUM®
The Alternative Fiber

**PRODUCT**: EXTRALIGNUM 350 BASIC / PLUS / TOP

**DESCRIPTION: Extralignum 350** is a mix of high quality wood fiber that represents a valid, ecological and sustainable alternative to replace other organic materials for the production of substrates. The unique properties of Extralignum ensure optimal performance for container plant development. Its dark color and technical characteristics make it particularly suitable as a valid alternative for the production of 100% peat free substrates. The product is available in the BASIC version (as it is), in the PLUS versions with slow release nitrogen added to 1 gr / lt 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 | **36** | % m/m s.s | - | UNI EN 15428:2008 |
| particle size fraction 1-2 mm | **28** | % m/m s.s | - | UNI EN 15428:2008 |
| particle size fraction < 1 mm | **32** | % 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 | **4,3** | unità di pH | 6-8,5 | DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220 |
| conductivity | 0,15 | dS/m | - | DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220 |
| salinity | 3,61 | meq/100g | - | DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220 |
| biological organic carbon (TOC) | **44,7** | % s.s. | ≥40 | DM 21/12/00 Suppl. n. 6 GU 21 26/01/2001 |
| total nitrogen | **0,77** | % s.s. | - | II SS n. 4 GU 15/01/2004 met. 2.6.1 (par. 7.1.2) |
| mineral nitrogen | **0,019** | % s.s. | - | II SS n. 4 GU 15/01/2004 met. 2.2.3 + 2.1 |
| organic nitrogen in% N total | **97,4** | % di N total | ≥80 | II SS n. 4 GU 15/01/2004 met. 2.6.1 (par. 7.1.2) |
| C / N ratio | **58** | - | - | 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 | **7,1** | mg/kg s.s. | ≤500 | DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220 |
| total Cu | **9,94** | mg/kg s.s. | ≤230 | DM 17/06/02 Suppl. n. 7 GU 19/09/02 n. 220 |
| total Hg | **<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 | **82** | % | ≥60 | UNI 10780 App. K:1998 (diluiz. 30%) |
| dry density appearence | **153** | kg/m3 | 60-250 | UNI EN 13041:2012 |
| organc matter | **95.71** | % m/m s.s. | - | UNI EN 13040:2008 par 9 a) |
| total porosity | **90,32** | % 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 | **10** | mS/m | <50 | UNI EN 13040:2008 + UNI EN 13038:2012 |
| electric conducibility | 0,10 | dS/m | | |
| OUR | **28,5** | 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 %) | - 100,00 % | | | |
| average root length (ARLP mm) | - 18,11 mm | | | |
| Radical length index (RI %) | 126,07 % Vitality index ML (MLV %) 138,77 % | | | |
| commercial bulk density | **350** | g/l | | UNI EN 12580:2014 |
| Water retention index | 40 | % 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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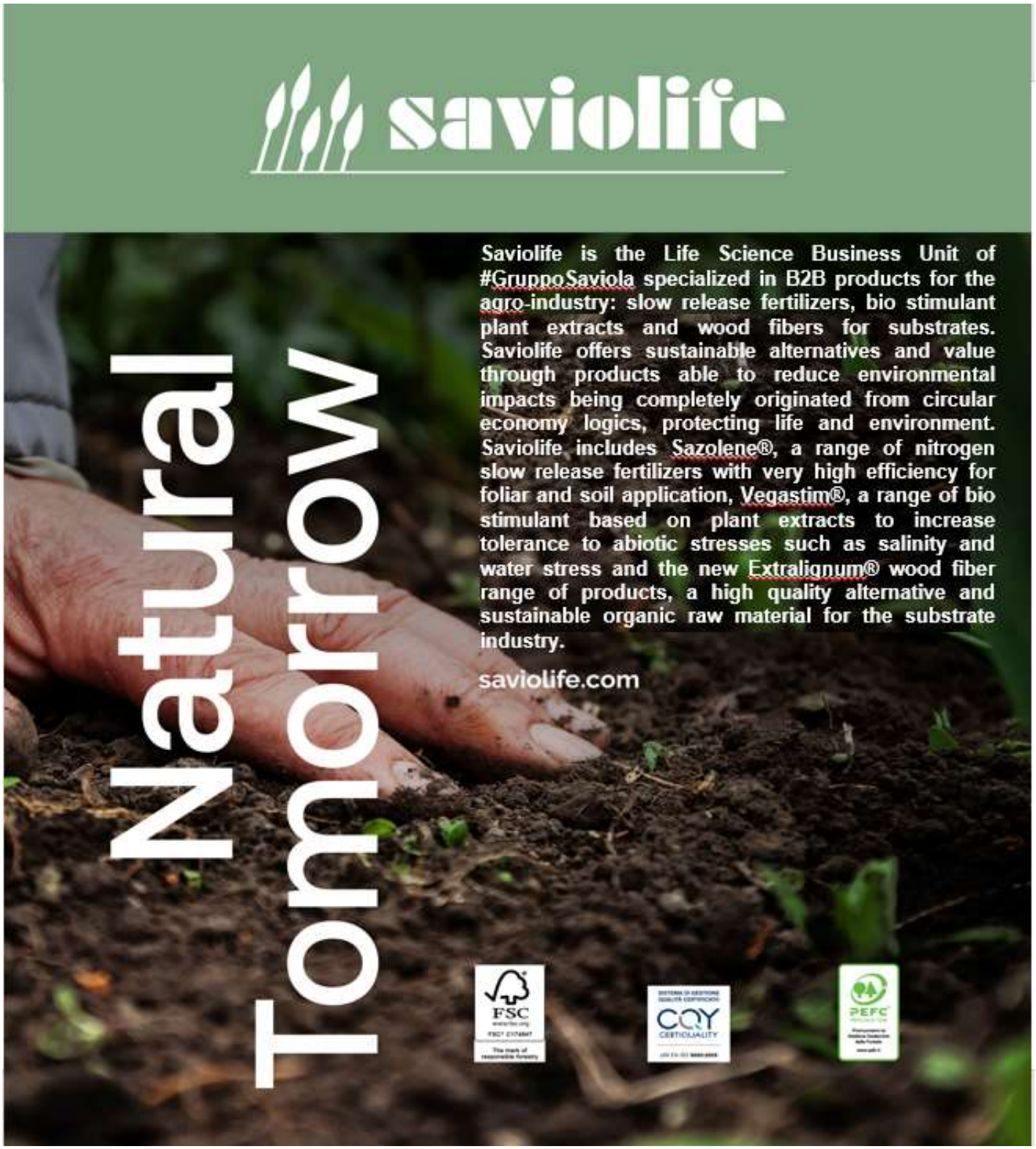


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