

# ENplus The guarantee for pellets quality

#### Forum Pelletu 19<sup>th</sup> September 2016 **Gilles Gauthier**

www.pelletcouncil.eu The European Pellet Council (EPC) is an umbrella organisation of AEBIOM founded in 2010, aiming at representing the interests of the wood pellet sector and at ensuring its sustainable development at European level. EPC members are made up of 18 national pellet associations and related organisations, from 17 countries and 4 observing members.



### Messages

- Who is managing EN*plus*
- EN*plus* registered trademark
- EN*plus* cares about quality
- ENplus cares about fraud



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The European Pellet Council (EPC) C/O European Biomass Association 2, Place du Champ de Mars, 1050 Brussels (BE)



# The common voice of the European bioenergy sector over the past 25 years.

Founded in 1990, AEBIOM is an international non-profit Brussels based organisation, bringing together 29 national associations and around 90 companies from all over Europe thus representing more than 4000 indirect members.



EPC is representing the interests of the European wood pellet sector.

> IBTC is a platform of international companies promoting the use of torrefied biomass as energy carrier.

Stay tuned!

AEBIOM STATISTICAL REPORT

EUROPEAN BIOENERGY FUTURE

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EUROPEAN PELLET

COUNCIL

AN AEBIOM NETWORK

NTERNATIONAL BIOMASS

ORREFACTION COUNCIL

AN AEBIOM NETWORK

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### **European Pellet Council**



Pellets will become a leading source of renewable energy in Europe, providing a credible solution for people and business as a standardised commodity. Pellets are seen as an environmentally benign product delivering added value to energy use in a well-functioning market.

### **EPC** characteristics

- Founded in 2010
- Organised in the AEBIOM
- Umbrella organisation
  - 17 national pellet associations
  - 4 observing members

### **EPC** activities

- Promote pellet
- Advocacy for pellet
- Quality of pellet sector
- Market intelligence

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#### ENplus today

- 344 producers certified
- 318 traders certified
- 43 countries
- 8 Mio t (end 2016 estimation)

Source: EPC Survey Copyright © 2015 European Biomass Association (AEBIOM)

#### EN*plus* team in Brussels



Gilles Gauthier General manager



Elena Dumitru EN*plus* management



Ramiro Penedo EN*plus* management



Jakob Bosch EN*plus* management





- ENplus is a registered trademark
- Based on an international standard ISO 17225-2 but even stricter criteria
- First introduced in Germany 2010
- Important update with ENplus Handbook 3.0. released on 1st of August 2015
- ENplus is managed on an international level by EPC. National pellet associations implement ENplus in their country and receive therefore the license rights from EPC.
- Certification = standard
- Covering the entire supply chain from raw material to end-user

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#### Technical requirements

Property	Unit	ENplus A1	ENplus A2	ENplus B	Testing standard <sup>11)</sup>
Diameter	mm	6 ± 1 or 8 ± 1			ISO 17829
Length	mm	$3,15 \le 40^{-4}$			ISO 17829
Moisture	w-% <sup>2)</sup>	≤ 10			ISO 18134
Ash	w-% <sup>3)</sup>	≤ 0,7	≤ 1,2	≤ 2,0	ISO 18122
Mechanical Durability	w-% <sup>2)</sup>	≥ 98,0 <sup>5)</sup>	≥ 97	7,5 <sup>5)</sup>	ISO 17831-1
Fines (< 3,15 mm)	w-% <sup>2)</sup>	$\leq 1,0^{6} (\leq 0,5^{7})$			ISO 18846
Temperature of pellets	°C	≤ 40 <sup>8)</sup>			
Net Calorific Value	kWh/kg 2)	≥ 4,6 <sup>9)</sup>			ISO 18125
Bulk Density	kg/m <sup>3 2)</sup>	600 ≤ BD ≤ 750			ISO 17828
Additives	w-% <sup>2)</sup>	≤ 2 <sup>10)</sup>			-
Nitrogen	w-% <sup>3)</sup>	≤ 0,3	≤ 0,5	≤ 1,0	ISO 16948
Sulfur	w-% <sup>3)</sup>	≤ 0,04 ≤ 0,05		ISO 16994	
Chlorine	w-% <sup>3)</sup>	≤ 0,02 ≤0,03		ISO 16994	
Ash Deformation Temperature <sup>1)</sup>	°c	≥ 1200 ≥ 1100		CEN/TC 15370-1	
Arsenic	mg/kg <sup>3)</sup>	≤1		ISO 16968	
Cadmium	mg/kg <sup>3)</sup>	≤ 0,5			ISO 16968
Chromium	mg/kg <sup>3)</sup>	≤10			ISO 16968
Copper	mg/kg <sup>3)</sup>	≤10			ISO 16968
Lead	mg/kg <sup>3)</sup>	≤10			ISO 16968
Mercury	mg/kg <sup>3)</sup>	≤ 0,1			ISO 16968
Nickel	mg/kg <sup>3)</sup>	≤10			ISO 16968
Zinc	mg/kg <sup>3)</sup>	≤100			ISO 16968







Technical requirements - handbook 3.0 update

Property	Unit	EN <i>plus</i> A1	EN <i>plus</i> A2	EN <i>plus</i> B	
Diameter	mm	6 ± 1 or 8 ± 1			
Length	mm	3,15 < L ≤ 40 <sup>3)</sup>			
Moisture Content	W-% <sup>1)</sup>	≤ 10			
Ash Content	w-% <sup>2)</sup>	≤ 0,7	≤ <b>1,2</b> (1,5)	≤ 2,0 (3,0)	
Mechanical Durability	W-% <sup>1)</sup>	≥ 98,0 (97,5)	≥ 97,5	≥ 97,5 (96,5)	
Fines	W-% <sup>1)</sup>	≤ 1,0 <sup>4)</sup> (≤ 0,5 <sup>5)</sup> )		)	
Pellet-Temperature	°C	≤ 40 <sup>6)</sup>			
Net <u>Calorific</u> Value	kWh/kg 1)	≥ 4,6			
Bulk Density	kg/m <sup>3 1)</sup>	600 ≤ BD ≤ 750			
Additives	W-% <sup>1)</sup>	≤ 2			

<sup>1)</sup> As received <sup>2)</sup> Dry basis <sup>3)</sup> max. 1% of the pellets is allowed to have a length between 40, no pellets longer than 45mm are allowed
<sup>4)</sup> At factory gate or when loading truck for deliveries to end-users <sup>5)</sup> at factory gate, when filling pellet bags or sealed Big Bags.
<sup>6)</sup> at the last loading point for truck deliveries to end-users

Value from version 2.0 of the Handbook

Deviation from ISO 17225-2

Mechanical Durability in ISO 17225-2: Class A1: ≥ 97,5 w-% Class B: ≥ 96,5 w-%

#### **Certification process**

#### Administrative phase



#### Plant audit Producer **EUROPEAN** PELLET Trader bagging st. COUNCIL Inspection Certification body body Testing body



E)

nlus

N	Application for Pellet Producers (Version 1.0, 25.06.2013)	
Terms an	nd Conditions for Licensing and Use of the ENpl	us Sign
Preface		
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the provisions ificate holder a program, public tract. Based on the certification lication form, t	Ication, the applicant acknowledges the terms for the use of of the current version of the Handbook that determine the and AEBUM. The current version of the schedule of fees for lished on the internet page <u>wave explore petities</u> , is also iffus, the applicant userins and the tot DE for entering with sign. In sending the certificate document and the approx the EFA accepts the offer and the contract's concluded. To plicate will not be and of the contract.	e relationship between or the ENplus certifica- an integral part of the o a contract on the use ved and countersigned
AEBIOM deck	ad documentations described in the Handbook have to be a des on the application according to the provisions of the Ha r complete documentation has been received.	
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Certification		
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	valid only during the time established by this contract. If th tification period begins, the applicant receives a new certific	
Confidentia	ality and non-disclosure	
hereby agrees	to non-disclosure of all business-related information, rec in the course of or before certification, if this information	

### Pellet quality ENplus Quality control

#### **Bad quality notification**

- EPC investigation
- Contact with certification body
- Possible extraordinary inspection
- If quality issue confirmed => certificate suspended
- If quality issue unsolved => certificate revoked

Please contact us! enplus@pelletcouncil.eu





A proper bag design is essential => It has to be approved by EPC

### Pellet quality ENplus Fraud fighting



Check if the country you are located in is listed in this table.

If it is, please contact that national licenser to report the fraud. If not, please contact EPC.

#### We ask that you would please provide us with as much information as possible (pictures, documents, etc.)



# EUROPEAN BIOENERGY FUTURE

2016 AEBIOM CONFERENCE "Where Market & Policy Meet"



16 & 17 November 2016



MCE Conference & Business Centre Brussels



For more information, contact aveni@aebiom.org



# Thanks for your attention



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