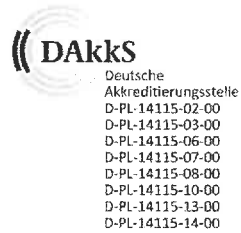


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DIN CERTCO  
Gesellschaft für Konformitätsbewertung  
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## Test report 2784001

Order no. 3590130  
Client no. 10028880



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Environmental Services

SGS Institut Fresenius GmbH  
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Berlin, 22.12.2015

Your project: Prüfung für AG Holzindustrie Pauls  
Your order no.: 3162446  
Date of order: 04.12.2015

Testing period from 10.12.2015 until 22.12.2015  
First sample no. 151146255  
Sample entry 10.12.2015

SGS Institut Fresenius

Thomas Smyk  
Customer Service

  
Maria Georgileas  
Customer Service

Naser Riazati  
Customer Service

  
Oliver Sommer  
Customer Service

Sample matrix: Wood pellets  
Sample delivery: Sample sent on behalf of the client  
Sample entry: 10.12.2015  
Testing period: 10.12.2015 until 22.12.2015

Sample no.: 151146254  
Sample name: Sample 1, fines

Parameter	Unit	LOQ	Method <sup>4</sup>	Result	Limit DIN plus <sup>1</sup>	Lab <sup>5</sup>
Fines	mass % ar	0,1	DIN EN 15149-2	0,2	≤ 0,5 (1,0) <sup>2</sup>	B1

Sample no.: 151146255  
Sample name: Sample 2, without fines

Parameter	Unit	LOQ	Method <sup>4</sup>	Result	Limit DIN plus <sup>1</sup>	Lab <sup>5</sup>
Average diameter	Millimeter		DIN EN 16127	6	6 or 8 ± 1	B1
Average length	Millimeter		DIN EN 16127	14,6	3,15 to 40	B1
Pellets < 10 mm	mass % ar		DIN EN 16127	13,0	informational	B1
Overlengths > 40 and ≤ 45 mm	mass % ar		DIN EN 16127	not found	≤ 1	B1
Overlengths > 45 mm	mass % ar		DIN EN 16127	not found	not allowed	B1
Moisture	mass % ar	0,1	DIN EN 14774-2	6,3	≤ 10	B1
Ash (550°C)	mass % d	0,1	DIN EN 14775	0,27	≤ 0,7	B1
Mechanical Durability	mass % ar	0,1	DIN EN 15210-1	99,1	≥ 97,5	B1
Net CV, const. p	MJ/kg ar	0,5	DIN EN 14918	17,57	≥ 16,5 to ≤ 19	B1
Bulk density	kg/m <sup>3</sup> ar	1	DIN EN 15103	694	≥ 600 to ≤ 750	B1
Nitrogen	mass % d	0,1	DIN EN 15104	< 0,10	≤ 0,3	B1
Sulphur total	mass % d	0,01	DIN EN 15289	< 0,01	≤ 0,04	B1
Chlorine total	mass % d	0,01	DIN EN 15289	< 0,01	≤ 0,02	B1
Arsenic	mg/kg d	1	DIN EN 15297	< 1	≤ 1	B1
Cadmium	mg/kg d	0,3	DIN EN 15297	< 0,3	≤ 0,5	B1
Chromium	mg/kg d	1	DIN EN 15297	< 1	≤ 10	B1
Copper	mg/kg d	2	DIN EN 15297	10	≤ 10	B1
Lead	mg/kg d	3	DIN EN 15297	< 3	≤ 10	B1
Mercury	mg/kg d	0,05	DIN EN 15297	< 0,05	≤ 0,1	B1
Nickel	mg/kg d	1	DIN EN 15297	< 1	≤ 10	B1
Zinc	mg/kg d	1	DIN EN 15297	9	≤ 100	B1
Shrinkage starting temperature SST	°C		DIN CEN/TS 15370-1 <sup>3</sup>	1230	-	B1
Deformation temperature DT	°C		DIN CEN/TS 15370-1 <sup>3</sup>	1410	≥ 1200	B1
Hemisphere temperature HT	°C		DIN CEN/TS 15370-1 <sup>3</sup>	1420	-	B1
Flow temperature FT	°C		DIN CEN/TS 15370-1 <sup>3</sup>	1450	-	B1

ar - result calc. to 'as received' state

d - result calc. to 'bone dry' state

LOQ - Limit of quantitation

1) Issue 06/2015

2) Value is valid for packing units up to 20kg; Value in parenthesis is valid for larger packing units and bulk ware

3) Deviant to the requirements of DINplus, regarding applicable standards according to DIN EN ISO 17225-2 the respective ones according to DIN EN 14961-2 were applied instead, approved by DIN CERTCO.

4) The laboratory locations of the SGS Group Germany and Switzerland according to the above abbreviations are listed at <http://www.institut-fresenius.de/filestore/89/laborstandortkuerzelsogs2.pdf>