SGS INSTITUT FRESENIUS

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Test report 2784001
Order no. 3590130
Client no. 10028880

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Environmental Services

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DAkkS Deutsche Akkreditierungsstelle
D-PL-14115-02-00
D-PL-14115-03-00
D-PL-14115-06-00
D-PL-14115-07-00
D-PL-14115-08-00
D-PL-14115-10-00
D-PL-14115-13-00
D-PL-14115-14-00

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[4]	Result	Limit DIN plus[1]	Lab[5]
Fines	mass % ar	0,1	DIN EN 15149-2	0,2	*≤ 0,5 (1,0)[2]*	B1

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

Parameter	Unit	LOQ	Method[4]	Result	Limit DIN plus[1]	Lab[5]
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/m³ 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[3]	1230	-	B1
Deformation temperature DT	°C		DIN CEN/TS 15370-1[3]	1410	*≥ 1200*	B1
Hemisphere temperature HT	°C		DIN CEN/TS 15370-1[3]	1420	-	B1
Flow temperature FT	°C		DIN CEN/TS 15370-1[3]	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/laborstandortkuerzelsgs2.pdf