

HOLZ FORSCHUNG – AUSTRIA - Test results - 28.11.2013.

parameter	unit	reference state	result	requirements according to ENplus A2
diameter, D	mm	ar	6,1	6 ± 1 (8 ± 1)
length, L	mm	ar	6 – 20	3,15 ≤ L ≤ 40
moisture, M	%	ar	5,8	≤ 10
ash, A (at 550 °C)	%	d	0,8	≤ 1,5
mechanical durability, DU	%	ar	99,7	≥ 97,5
finest, F	%	ar	0,25	≤ 1,0
net calorific value, Q	MJ/kg	ar	17,28	16,3 ≤ Q ≤ 19
bulk density, BD	kg/m ³	ar	680	≥ 600
additives	%	d	--	≤ 2
carbon, C	%	d	48	--
hydrogen, H	%	d	5,9	--
nitrogen, N	%	d	0,17	≤ 0,5
sulphur, S	%	d	0,008	≤ 0,03
chlorine, Cl	%	d	0,001	≤ 0,02
arsenic, As	mg/kg	d	< 0,8	≤ 1
cadmium, Cd	mg/kg	d	< 0,5	≤ 0,5
chromium, Cr	mg/kg	d	< 1	≤ 10
copper, Cu	mg/kg	d	3	≤ 10
lead, Pb	mg/kg	d	< 1	≤ 10
mercury, Hg	mg/kg	d	< 0,07	≤ 0,1
nickel, Ni	mg/kg	d	< 1	≤ 10
zinc, Zn	mg/kg	d	3	≤ 100
<u>ash melting behaviour:</u>				
shrinkage starting temperature SST	°C	d	n.a.	--
deformation temperature DT	°C	d	1310	≥ 1100
hemisphere temperature HT	°C	d	n.a.	--
flow temperature FT	°C	d	>1500	--

ar... as received
d... dry basis