

Annex 2 – Wood pellets for non-industrial use (pr 14961-2 draft N218, Dec 2009)

Normative	Property class/Analysis method	Unit	A1	A2	B
	Origin and source			1.1.3 Stemwood 1.2.1 Chemically untreated wood residues	1.1.1 Whole trees without roots 1.1.3 Stemwood 1.1.4 Logging residues 1.1.6 Bark 1.2.1 Chemically untreated wood residues
Diameter, D ^a and Length L ^b Accordinging Figure 1 in Annex 1		mm	D06, 6 ± 1; 3,15 ≤ L ≤ 40 D08, 8 ± 1 3,15 ≤ L ≤ 40	D06, 6 ± 1; 3,15 ≤ L ≤ 40 D08, 8 ± 1; 3,15 ≤ L ≤ 40	D06 6 ± 1; 3,15 ≤ L ≤ 40 D08 8 ± 1; 3,15 ≤ L ≤ 40
Moisture, M EN 14774-1, EN 14774-2		as received, w-% wet basis	M10 ≤ 10	M10 ≤ 10	M10 ≤ 10
Ash, A EN14775		w-% dry	A0.7 ≤ 0,7	A1.5 ≤ 1,5	A3.0 ≤ 3,0
Mechanical durability, DU EN 15210-1		as received, w-%	DU97.5 ≥ 97,5	DU97.5 ≥ 97,5	DU96.5 ≥ 96,5
Fines at factory gate in bulk transport (at the time of loading) and in small (up to 20 kg) and large sacks (at time of packing or when delivering to end-user), F, prEN 15149-1		w-% as received	F1.0 ≤ 1,0	F1.0 ≤ 1,0	F1.0 ≤ 1,0
Additives ^c		w-% dry	≤ 2 w-% Type and amount to be stated	≤ 2 w-% Type and amount to be stated	≤ 2 w-% Type and amount to be stated
Net calorific value, Q EN 14918		as received, MJ/kg or kWh/kg	Q16.5 ≥ 16,5 or Q4.6 ≥ 4,6	Q16.3 ≥ 16,3 or Q4.5 ≥ 4,5	16.0 ≥ 16,0 or Q4.4 ≥ 4,4
Bulk density, BD, EN 15103		kg/m ³	BD600 ≥ 600	BD600 ≥ 600	BD600 ≥ 600
Nitrogen, N, prEN 15104		w-% dry	N0.3 ≤ 0,3*	N0.5 ≤ 0,5*	N1.0 ≤ 1,0*
Sulphur, S, prEN 15289		w-% dry	S0.05 ≤ 0,05*	S0.05 ≤ 0,05*	S0.05 ≤ 0,05*
Chlorine, Cl, prEN 15289		w-% dry	Cl0.02 ≤ 0,02*	Cl0.03 ≤ 0,03*	Cl0.03 ≤ 0,03*
Arsenic, As, prEN 15297		mg/kg dry	≤ 1	≤ 1	≤ 1
Cadmium, Cd, prEN 15297		mg/kg dry	≤ 0,5	≤ 0,5	≤ 0,5
Chromium, Cr, prEN 15297		mg/kg dry	≤ 10	≤ 10	≤ 10
Copper, Cu, prEN 15297		mg/kg dry	≤ 10	≤ 10	≤ 10
Lead, Pb, prEN 15297		mg/kg dry	≤ 10	≤ 10	≤ 10
Mercury, Hg, prEN 15297		mg/kg dry	≤ 0,1	≤ 0,1	≤ 0,1
Nickel, Ni, prEN 15297		mg/kg dry	≤ 10	≤ 10	≤ 10
Zinc, Zn, prEN 15297		mg/kg dry	≤ 100	≤ 100	≤ 100
Ash melting behaviour, DT ^d prEN15370		°C	DT1200 ≥ 1 200	DT1100 ≥ 1 100	DT1100 ≥ 1 100

^a Selected size of pellets to be stated.

^b Amount of pellets longer than 40 mm can be 1 w-%. Maximum length shall be < 45 mm.

^c Type (e.g. starch, corn flour, potato flour, vegetable oil)

^d If appropriate, all characteristic temperatures in oxidized conditions can be stated (shrinkage starting temperature (SST), deformation temperature (DT), hemisphere temperature (HT) and flow temperature (FT) can be stated.

* values not yet agreed.