

WOOD PELLETS SPECIFICATIONS	27/04/2012	EN	Initiative Wood Pellets Buyers: Industrial wood pellets specifications							Check performed by	Remarks
	PARAMETERS AND REJECTION LIMITS ⁴	Units	Standard	I1 industrial		I2 industrial		I3 industrial			
Origin and source	Only accepted	EN 14961-1	1.1 Forest, plantation and other virgin wood, 1.2.1 chemically untreated wood residues		1.1 Forest, plantation and other virgin wood, 1.2.1 chemically untreated wood residues		1.1 Forest, plantation and other virgin wood, 1.2.1 chemically untreated wood residues		insp & lab	type and quantity to be stated	
Sampling		EN 14778							insp		
Quality check									insp		
Sample preparation		EN 14780							insp		
No water damage			None		None		None		insp		
No burned/charred pellets			None		None		None		insp		
Additives (composition, mass)	weight% ar	EN 14961	< 3% additives		< 3% additives		< 3% additives		declared by seller		
		OFGEM	sustainability proven for UK		sustainability proven for UK		sustainability proven for UK		seller		
Physical parameters			Limit	Tolerance	Limit	Tolerance	Limit	Tolerance			
Diameter	mm	EN16127	6 to 8	within range	6 to 10	within range	6 to 12	within range	insp & lab		
Length ≤50 mm	weight %	EN16127	99,9%	within range	99,9%	within range	99,9%	within range	insp & lab		
Length ≤40 mm	weight %	EN16127	99%	within range	99%	within range	99%	within range	insp & lab		
Water content	weight% ar	EN 14774	≤ 10 %	0,5% absolute	≤ 10 %	0,5% absolute	≤ 10 %	0,5% absolute	insp & lab		
Bulk (apparent) density	kg/m3	EN 15103	≥ 600	2% of limit	≥ 600	2% of limit	≥ 600	2% of limit	insp & lab		
Maximum bulk temperature	°C	EN15234-2	≤ 60	1°C	≤ 60	1°C	≤ 60	1°C	insp		
Net calorific value at constant pressure	GJ/ton ar	EN 14918	≥ 16,5	0,3 GJ/ton	≥ 16,5	0,3 GJ/ton	≥ 16,5	0,3 GJ/ton	lab		
Ash content	weight% DM	EN 14775	≤ 1,0%	10% of limit	≤ 1,5%	10% of limit	≤ 3%	10% of limit	lab		
Elementary composition											
Cl	weight% DM	EN 15289	≤ 0,03%	0,01% absolute	≤ 0,05 %	0,01% absolute	≤ 0,1 %	20% of limit	lab		
N	weight% DM	EN 15104	≤ 0,3%	0,05% absolute	≤ 0,3 %	10% of limit	≤ 0,6 %	10% of limit	lab		
S	weight% DM	EN 15289	≤ 0,15 %	0,01% absolute	≤ 0,2 %	20% of limit	≤ 0,4 %	20% of limit	lab		
Trace elements											
As	mg/kg DM	EN 15297	≤ 2	0,064 absolute	≤ 2	0,064 absolute	≤ 2	0,064 absolute	lab		
Cd	mg/kg DM	EN 15297	≤ 1	0,06 absolute	≤ 1	0,06 absolute	≤ 1	0,06 absolute	lab		
Cr	mg/kg DM	EN 15297	≤ 15	0,032 absolute	≤ 15	0,032 absolute	≤ 15	0,032 absolute	lab		
Cu	mg/kg DM	EN 15297	≤ 20	0,043 absolute	≤ 20	0,043 absolute	≤ 20	0,043 absolute	lab		
Pb	mg/kg DM	EN 15297	≤ 20	0,033 absolute	≤ 20	0,033 absolute	≤ 20	0,033 absolute	lab		
Hg	mg/kg DM	EN 15297	≤ 0,1	0,0046 absolute	≤ 0,1	0,0046 absolute	≤ 0,1	0,0046 absolute	lab		
Zn	mg/kg DM	EN 15297	≤ 200	5,43 absolute	≤ 200	5,43 absolute	≤ 200	5,43 absolute	lab		
Fines ≤ 3.15 mm (round hole sieves)	weight% ar	EN15210-1	≤ 4 %	1% absolute	≤ 5 %	1% absolute	≤ 6 %	1% absolute	insp & lab		
Durability	weight% ar	EN 15210	97,5-99%	0,5% absolute	97,0%-99%	0,5% absolute	96,5%-99%	0,5% absolute	lab		
									lab		
Particle size distribution (square hole sieves)		EN15149-2									
% < 3.15 mm	weight %	EN 16126	>99%	1% absolute	>98%	1% absolute	>97%	1% absolute	lab		
% < 2.0 mm	weight %	EN 16126	>95%	2% absolute	>90%	2% absolute	>85%	2% absolute	lab		
% < 1.0 mm	weight %	EN 16126	>60%	5% absolute	>50%	5% absolute	>40%	5% absolute	lab		

Tolerance: instances where ISO doesn't have a tolerance

Notes:
Generic wording to be included to cover water damage and burned pellets

Performed by: -Lab: analyses will be performed by the independent laboratory; - Insp: test will be performed by the inspection company;
-Insp & lab: means a field test will be performed by the inspection company, the final value will be analyzed by the lab