

5. Hog fuel quality requirements

- 5.1, The final product shall meet the technical specifications of the corresponding quality class defined in table III.
- 5.2, The final product shall meet one of the main fraction classes (P classes) and the fine fraction classes (F classes) showed in table IV.
- 5.3, Compliance of the final product with the requirements of this Standard shall be verified through analyses carried out on a sample taken by the inspector during the on-site inspection².

Table III
Hog fuel technical specifications related to the quality classes covered by the scope of GoodChips® certification

Property class Analysis method (last version)	Unit	B			
		1	2	3	4
Origin and source ^a		Virgin wood ^b • without bark Chemically untreated wood residues on by-products from wood processing industry • without bark	Virgin wood Chemically untreated wood residues on by-products from wood processing industry Segregated wood from gardens, parks, roadside maintenance, vineyards, fruit orchards and driftwood from freshwater	Chemically untreated wood residues on by-products from wood processing industry Chemically untreated used wood ^c	Chemically treated uncontaminated wood residues, by-products, fibres and wood constituents from wood processing industry ^d
Particle size, P ISO 17827-1	mm	To be selected from Table IV			
Fine fraction, F ISO 17827-1	(<3,15 mm w-%)	To be selected from Table IV			
Moisture, M ISO 18134-1, ISO 18134-2	w-%	M60 ≤ 60 M30 ≤ 30			
Ash, A ISO 18122	w-% dry	A3,0 ≤ 3,0	A7,0 ≤ 7,0	A4,0 ≤ 4,0	A5,0 ≤ 5,0
Nitrogen, N ISO 14948	w-% dry	N1,0 ≤ 1,0	N1,0 ≤ 1,0	N1,5 ≤ 1,5	N1,0 ≤ 1,0
Sulfur, S ISO 14994	w-% dry	S0,1 ≤ 0,1	S0,1 ≤ 0,1	S0,1 ≤ 0,1	S0,1 ≤ 0,1
Chlorine, Cl ISO 14994	w-% dry	Cl0,05 ≤ 0,05	Cl0,05 ≤ 0,05	Cl0,1 ≤ 0,1	Cl0,1 ≤ 0,1
Arsenic, As ISO 14968	mg/kg	≤ 1	≤ 1	≤ 4	≤ 4
Cadmium, Cd ISO 14968	mg/kg dry	≤ 2,0	≤ 2,0	≤ 2,0	≤ 2,0

² The schedule of inspections is included in Annex D of GoodChips® ST 1002.

^a Blends of different classes of origin and source inside each quality class are allowed

^b Excluding Segregated wood from gardens, parks, roadside maintenance, vineyards, fruit orchards and driftwood from freshwater

^c Post-consumer/post-society wood, natural or merely mechanically processed wood, contaminated only to an insignificant extent during use by substances that are not normally found in wood in its natural state (for example pallets, transport cases, boxes, wood packages, cable reels, construction wood)

^d Chemically treated wood by-products and residues from wood processing industry is allowed in B4 as long as it does not contain heavy metals or halogenated organic compounds as a result of treatment with wood preservatives or coating

Chromium, Cr ISO 14968	mg/kg dry	≤ 20	≤ 20	≤ 30	≤ 20
Copper, Cu ISO 14968	mg/kg	≤ 30	≤ 30	≤ 50	≤ 30
Lead, Pb ISO 14968	mg/kg	≤ 20	≤ 20	≤ 30	≤ 20
Mercury, Hg ISO 14968	mg/kg	≤ 0,1	≤ 0,1	≤ 0,1	≤ 0,1
Nickel, Ni ISO 14968	mg/kg	≤ 10	≤ 10	≤ 10	≤ 10
Zinc, Zn ISO 14968	mg/kg	≤ 100	≤ 100	≤ 100	≤ 100
Net Calorific Value, Q ISO 18125	MJ/kg or kWh/kg as received	Minimum value to be stated			

Table IV
Hog fuel particle size classes covered by the scope of GoodChips® certification

Dimensions (mm)	Main fraction ^a (minimum 60 w-%)			Coarse fraction w-% (length of particle)		Max. length of particles ^b
	Main fraction ^a (minimum 60 w-%)		Coarse fraction w-% (length of particle)			
P31	3.15 mm < P ≤ 31.5 mm		≤ 6 % > 45 mm		≤ 200 mm	
P45	3.15 mm < P ≤ 45 mm		≤ 10 % > 63 mm		≤ 350 mm	
P63	3.15 mm < P ≤ 63 mm		≤ 10 % > 100 mm		≤ 350 mm	
P100	3.15 mm < P ≤ 100 mm		≤ 10 % > 150 mm		≤ 350 mm	
P200	3.15 mm < P ≤ 200 mm		≤ 10 % > 250 mm		≤ 400 mm	
P300	3.15 mm < P ≤ 300 mm		To be specified		To be specified	
F05	≤ 5 %					
F10	≤ 10 %					
F15	≤ 15 %					
F20	≤ 20 %					
F25	≤ 25 %					
F30	≤ 30 %					
F30+	> 30 (maximum value to be stated)					