

At Forever Fuels, we are working closely with producers, hauliers and equipment-installers to ensure that the pellets follow a quality-controlled chain from the forest to your store. The pellets from our larger producers are from FSC-certified (or equivalent) forests. All our producers sample and analyse their pellets regularly, and we carry out random tests to verify their analysis. Our handling and sampling procedures are designed to ensure full traceability. Forever Fuels supplies two grades of pellets – **Grade A** and **Grade B**. Grade B is only available in bulk. Grade A is available in bulk or bags.



Grade A pellets

Our **Grade A** pellets are specified (and regularly analysed to test conformance) to **D06 M10 A0.7 E4.7 DU97.5 F2.0 N0.5 S0.05 Cl0.07**, according to the CEN/TS 14961 European standard classification. That terminology is compact but opaque, so for clarification:

D = Diameter, D06 = 6mm diameter (max. 30mm length, with allowance for upto 45mm length in 20% of the stock)

M = Moisture, M10 = $\leq 10\%$ moisture

A = Ash, A0.7 = $\leq 0.7\%$ ash

E = Energy density, E4.7 = ≤ 4.7 kWh/kg Net Calorific Value, dry basis

DU = Durability, DU97.5 = $\leq 97.5\%$ durability (i.e. less than 2.5% by weight of the pellets break off to form fines under stress-testing)

F = Fines, F2.0 = $\leq 2.0\%$ fines (at the factory gate. Grade A pellets will be cleaned before loading to minimize the delivered fines-content)*

N = Nitrogen, N0.5 = $\leq 0.5\%$ Nitrogen

S = Sulphur, S0.05 = $\leq 0.05\%$ Sulphur

Cl = Chlorine, Cl0.07 = $\leq 0.07\%$ Chlorine

Additionally (also referenced in 14961), we prefer pellets with no additives, and specify a maximum additive-level of 2% by weight, dry basis. As per recommendation in 14961, only products from agricultural and forestry biomass that have not been chemically modified are approved to be added as pressing aids.

Grade B pellets

Our **Grade B** pellets will be **D08 M12 A1.5 E4.5 DU95 N1.0 S0.1 Cl0.1**, i.e. 6 to 8 mm diameter, less than 12% moisture and 1.5% ash, greater than 95% mechanical durability and 4.5 kWh/kg energy density, etc.

We have specified a reasonably-high level of durability to ensure easy handling, but we will not normally clean our Grade B pellets before loading and consequently do not specify a fines-content.*

The pellets from local producers will vary, but will usually be to a Grade B specification. This specification is to allow room for greater tolerances, and as a guide to the standard of pellets your boiler should be able to accept to have a good chance of supporting local production and paying less than the premium price. Our Grade B pellets will often be of a significantly higher standard than this; please speak to us for specifications for our current stock in your area.

* The delivered fines-content will depend on many factors, including the design of your installation.