Major fuel properties - analysis group A	As Received fuel basis	Moisture content	wt%	fresh sample weight (wet basis)	
		Volatile matter	wt%	Proportion of dry, ash free sample, driven off at	
		Fixed carbon	wt%	to 900°C (volatile matter driven off)	
		Ash	wt%	Non-combustible mineral content of sample	
		GCV	kJ/kg	Gross calorific value	Total energy in sample, assuming water vapour produced is condensed and the energy recovered
		Sulphur	wt%	Percentage of Sulphur in sample, as received	
		Chlorine	wt%	Percentage of Chlorine in sample, as received	
		H	%	Percentage of Hydrogen in sample, as received	
		NCV	kJ/kg	Net clorific value	Energy in sample, assuming water
	Dry Fuel Basis Analysis	Ash	wt%	Percentage of non-combustible mineral content in dry sample	
		GCV	kJ/kg	Gross calorific value of dry sample	Total energy in sample, assuming water vapour produced is condensed and the energy recovered
		C	wt%	Percentage of Carbon in dry sample	
		N	wt%	Percentage of Nitrogen in dry sample	
		H	wt%	Percentage of Hydrogen in dry sample	
		S	wt%	Percentage of Sulphur in dry sample	
		Cl	wt%	Percentage of Chlorine in dry sample	
	On a 'Dry, Ash-free' basis	Volatile matter	wt%	Proportion of dry, ash free sample, driven off at	
		GCV	kJ/kg	Gross calorific value	Total energy in sample, assuming water vapour produced is condensed and the energy recovered
		C	wt%	Percentage of Carbon in dry sample on ash free basis	
		H	wt%	Percentage of Nitrogen in dry sample on ash free basis	
		N	wt%	Percentage of Hydrogen in dry sample on ash free basis	
		S	wt%	Percentage of Sulphur in dry sample on ash free basis	
		Cl	wt%	Percentage of Chlorine in dry sample on ash free basis	
Trace elements		Ba	mg/kg dry fuel	Barium content in dry sample	
		Be	mg/kg dry fuel	Beryllium content in dry sample	
		Cr	mg/kg dry fuel	Chromium content in dry sample	
		Co	mg/kg dry fuel	Cobalt content in dry sample	
		Cu	mg/kg dry fuel	Copper content in dry sample	
		Mo	mg/kg dry fuel	Molybdenum content in dry sample	
		Ni	mg/kg dry fuel	Nickel content in dry sample	
		V	mg/kg dry fuel	Vanadium content in dry sample	
		Zn	mg/kg dry fuel	Zinc content in dry sample	
		Sb	mg/kg dry fuel	Antimony content in dry sample	
		As	mg/kg dry fuel	Arsenic content in dry sample	
		Hg	mg/kg dry fuel	Mercury content in dry sample	
		F	mg/kg dry fuel	Fluorine content in dry sample	
		Cd	mg/kg dry fuel	Cadmium content in dry sample: GFAAS value if available, otherwise value from ICP	
		Pb	mg/kg dry fuel	Lead content in dry sample: GFAAS value if available, otherwise value from ICP	
Pellet physical properties		Pellet durability %	%	Mechanical durability of pellets represented by their	
		Fines content of pellet <3.15 mm	%	Proportion of fine particles (dust) in the pellet sample	
		Bulk density	kg/m3		
Ash Oxides (as analysed)		Al_2O_3	wt% in ash	Alumina in ash	
		BaO	wt% in ash	Barium oxide in ash	
		CaO	wt% in ash	Calcium oxide in ash	
		Fe_2O_3	wt% in ash	Ferric (Iron(III)) oxide in ash	
		K_2O	wt% in ash	Potassium oxide in ash	
		MgO	wt% in ash	Magnesium oxide in ahs	
		Mn_3O_4	wt% in ash	Manganese(II,III) oxide in ash	
		Na_2O	wt% in ash	Sodium oxide in ash	
		P_2O_5	wt% in ash	Phosphorus (pent-)oxide in ash	
		SO_3	wt% in ash	Sulphur (tri-)oxide in ash	
		SiO_2	wt% in ash	Silica (silicon oxide) in ash	
		TiO_2	wt% in ash	Titanium oxide in ash	
Ash oxides,		Al_2O_3	wt% in normalised ash	Alumina in ash	
		BaO	wt% in normalised ash	Barium oxide in ash	
		$CaCO_3$	wt% in normalised ash	Calcium oxide in ash	
		Fe_2O_3	wt% in normalised ash	Ferric (Iron(III)) oxide in ash	
		K_2O	wt% in normalised ash	Potassium oxide in ash	
		MgO	wt% in normalised ash	Magnesium oxide in ahs	
		Mn_3O_4	wt% in normalised ash	Manganese(II,III) oxide in ash	
		Na_2O	wt% in normalised ash	Sodium oxide in ash	
		P_2O_5	wt% in normalised ash	Phosphorus (pent-)oxide in ash	
		SiO_2	wt% in normalised ash	Silica (silicon oxide) in ash	
		TiO_2	wt% in normalised ash	Titanium oxide in ash	

normalised			The normalised ash oxides make use of the "as analysed" values, but normalise them as percentages of the measured total ash content on the assumption that Ca is present as CaCO3 rather than CaO, and with S (reported as SO3 in the uncorrected analysis) removed	
Ash fusion temperatures	Reducing conditions	Initial deformation	°C	Temperature at which a cone of ash starts to deform in an oxidising atmosphere
		Softening		Temperature at which a cone of ash starts to soften
		Hemisphere		Temperature at which a cone of ash melts sufficient to form a hemispherical blob in an oxidising atmosphere
		Flow		Temperature at which a cone of ash melts, sufficient to start to flow in an oxidising atmosphere
	Oxidising conditions	Initial deformation	°C	Temperature at which a cone of ash starts to deform in a reducing atmosphere
		Softening		Temperature at which a cone of ash starts to soften
		Hemisphere		Temperature at which a cone of ash melts sufficient to form a hemispherical blob in a reducing atmosphere
		Flow		Temperature at which a cone of ash melts, sufficient to start to flow in a reducing atmosphere