

Pellet Fuels Institute Standard Specification for Residential/Commercial Densified Fuel

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TABLE 1 PFI Fuel Grade Requirements

Fuel Property	Residential/Commercial Densified Fuel Standards See Notes 1 - 3		
	PFI Premium	PFI Standard	PFI Utility
Normative Information - Mandatory			
Bulk Density, lb./cubic foot	40.0 - 46.0	38.0 - 46.0	38.0 - 46.0
Diameter, inches	0.230 - 0.285	0.230 - 0.285	0.230 - 0.285
Diameter, mm	5.84 - 7.25	5.84 - 7.25	5.84 - 7.25
Pellet Durability Index	≥ 96.5	≥ 95.0	≥ 95.0
Fines, % (at the mill gate)	≤ 0.50	≤ 1.0	≤ 1.0
Inorganic Ash, %	≤ 1.0	≤ 2.0	≤ 6.0
Length, % greater than 1.50 inches	≤ 1.0	≤ 1.0	≤ 1.0
Moisture, %	≤ 8.0	≤ 10.0	≤ 10.0
Chloride, ppm	≤ 300	≤ 300	≤ 300
Heating Value	NA	NA	NA
Informative Only - Not Mandatory			
Ash Fusion	NA	NA	NA

Table 1 Notes:

1. The following applies to all limits in this table: For purposes of determining the fuel grade, all properties must fall at or within the specified limits listed for a particular grade. Observed or calculated values obtained from analysis shall be rounded to the nearest unit in the last right-hand place of the figures used in expressing the limit in accordance with ASTM E 29 *Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications*.
2. It is the intent of these fuel grade requirements that failure to meet any fuel property requirement of a given grade does not automatically place a fuel in the next lower grade unless it meets all requirements of the lower grade.
3. There are no specific grade requirements for heating value, however densified fuel manufacturers must provide a minimum higher heating value guarantee on quality marked product when these standard specifications are used in conjunction with the *PFI Residential/Commercial Densified Fuel QA/QC Handbook* and the *Accreditation Body Residential/Commercial Densified Fuel Enforcement Regulations*. Quality marked product must also disclose the type of materials used as well as any additives as specified in section 8 of the *PFI Residential/Commercial Densified Fuel QA/QC Handbook*. Quality marked product must also exclude chemically treated materials as specified in section 4.5 of the *PFI Residential/Commercial Densified Fuel QA/QC Handbook*.
4. NA – Not Applicable; No value has been established.