

Laboratory tests

Analysis	Standard	Description
Moisture (M)	UNI EN ISO 18134-1: 2015	It expresses the percentage of water contained in the sample as received
Dimensions	UNI EN ISO 17225-1: 2021	It allows the size classification of woody biofuel
Ash (A)	UNI EN ISO 18122: 2016	It expresses the ash content of a sample calcined in a muffle furnace at a 550°C
Ash melting behaviour	UNI EN ISO 21404: 2020	It express the behaviour of the ash at high temperatures through the determination of the following characteristic temperatures: SST shrinkage starting temperature DT deformation temperature HT hemisphere temperature FT flow temperature
Calorific value (Q)	UNI EN ISO 18125: 2018	It express the calorific value as the amount of heat released during the combustion of a specified amount of wood material
Bulk density (BD)	UNI EN ISO 17828: 2016	It expresses the bulk density as calculated from the net weight per standard volume and reported for the measured moisture content
Particle size (P)	UNI EN ISO 17827-1:2016	It expresses the particle size distribution of a sample
Amount of fines (F)	UNI EN ISO 18846:2016	It expresses the content of fines in samples of densified woody biofuels (pellets e briquettes)
Mechanical durability (DU)	UNI EN ISO 17831-2: 2016	It expresses the resistance of densified woody biofuels (pellets and briquettes) towards shocks and/or abrasion as a consequence of handling and transportation processes
Classification	UNI EN ISO 17225-1: 2021	It expresses the fuel quality classes and specifications for solid biofuels
Particle density (DE)	UNI EN ISO 18847:2017	It expresses the ratio between weight and volume of densified woody biofuel (pellets and briquettes)