

## COFORD/SEI voluntary register of wood fuel testing laboratories

### Disclaimer

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The following laboratories are included on the register:

	Name	Address	Web	Email	Phone
	Teagasc	Crops Research Centre, Oak Park, Carlow	<a href="http://www.teagasc.ie">www.teagasc.ie</a>		0599170200
Person in charge	Dr A. Frohlich	(as above)		andreas.frohlich@teagasc.ie	0599170281

	Waterford Institute of Technology	Cork Road Waterford	<a href="http://www.wit.ie">www.wit.ie</a>		051 302000
Person in charge	Mr Tom Kent – Physical testing	(as above)		<a href="mailto:tkent@wit.ie">tkent@wit.ie</a>	051 302646
	Dr Eleanor Owens – Chemical testing			<a href="mailto:eowens@wit.ie">eowens@wit.ie</a>	051 302733

Table 1 contains a list of all the applicable standards and Technical Specifications that are applicable to solid biofuels. If a cost is specified, this means that the laboratory can perform the test. The cost includes pre-treatment, but is indicative only. Prices are for a single sample only. A lower cost per sample may be obtainable for larger numbers of samples. Turn-around times are also based on the analysis of a single sample. Larger number of samples can be processed to an agreed time schedule.

Before sending in a sample an order form should be requested from the lab. The form will be accompanied by instructions on how to take the sample, the sample size and how to package and ship the sample. No analysis of posted samples will be carried out without prior communication and an accompanying order form.

Adherence to correct sampling procedure is vitally important, as the accuracy of all tests will be compromised by incorrect or careless sample collection, packaging or storage prior to delivery for

testing. Correct sampling techniques for solid biofuels at various sampling points are described in IS CEN/TS 14778-1 and IS CEN/TS 14778-2; correct sample preparation methods are described in IS CEN/TS 14780. Clients will be advised on the correct sampling technique as part of the ordering process.

**Table 1:** IS CEN/TS/Standard Solid Biofuel tests currently available by the registered laboratories, including indicative costs and turn around time

<i>IS CEN Technical Specification/Standard</i>	<i>Test</i>	<i>Teagasc Cost</i> €	<i>Teagasc Turn-around time</i> days	<i>WIT Cost</i> €	<i>WIT Turn-around time</i> days
IS CEN/TS 14774 - part 1	Moisture content - Reference method	10	7	10	7
IS CEN/TS 14774 - part 2	Moisture content - Simplified method	10	7	10	7
IS CEN/TS 14774 - part 3	Moisture content – General analysis sample	15	7	15	7
IS CEN/TS 14775	Ash content	15	7	15	7
IS CEN/TS 14918	Calorific value	25 (dry sample)	7	25	7
IS CEN/TS 15103	Bulk density	20	7	40	7
IS CEN/TS 15104	Total C, H and N	35 (N only)	7	No	
IS CEN/TS 15105	Water soluble Cl, Na, K	no		25	7
IS CEN/TS 15148	Content of volatile matter	20	7	20	7
IS CEN/EN 15149-1:2006	Solid biofuels - Methods for the determination of particle size distribution - Part 1: Oscillating screen method using sieve apertures of 3,15 mm and above	No		100	7
IS CEN/TS 15149-2	Particle size distribution, vibrating screen, sieve apertures 3.15 mm and below	35	7	100	7
IS CEN/TS 15149-3	Particle size distribution, rotary screen.	no		No	
IS CEN/TS 15150	Particle density	no		50	7
IS CEN/TS 15210-1	Mechanical durability of pellets	35	7	50	
IS CEN/TS 15210-2	Mechanical durability of briquettes	No		No	
IS CEN/TS 15289	Total sulphur and chlorine	No		No	
IS CEN/TS 15290	Major elements, <i>specify per element</i>	No		40	7
IS CEN/TS 15297	Minor elements, <i>specify per element</i>	No		40	7
IS CEN/TS 15370-1	Ash melting behaviour	No		No	