

Date

Reference

2023-08-25

2022/1050

## Scope of accreditation

### Testing according to SS-EN ISO/IEC 17025:2018

Eurofins Biofuel & Energy Testing Sweden AB

Lidköping

Accreditation number

1820

A003424-001

## Chemical analysis

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Material</i>	<i>Flex</i>	<i>Type of flex</i>	<i>Field</i>	<i>Note</i>
Fuel analysis	Ash content	ISO 1171	Gravimetry	Coal	Yes	2	No	
		SS-EN 15403	Gravimetry	Recovered fuels	Yes	2	No	
		SS-EN ISO 18122	Gravimetry	Biofuel	Yes	2	No	
			Gravimetry	Peat	Yes	2	No	
	Ash fusibility	ISO 540	High Temperatur furnace	Ash	Yes	2	No	
			High Temperatur furnace	Coal	Yes	2	No	
			High Temperatur furnace	Peat	Yes	2	No	
		SIS-CEN/TR 15404	High Temperatur furnace	Ash	Yes	2	No	
			High Temperatur furnace	Recovered fuels	Yes	2	No	
		SIS-CEN/TS 15370-1	High Temperatur furnace	Ash	Yes	2	No	
			High Temperatur furnace	Biofuel	Yes	2	No	
		SS-EN ISO 21404	High Temperatur furnace	Ash	Yes	2	No	
			High Temperatur furnace	Biofuel	Yes	2	No	
		Bulk density	SIS-CEN/TS 15401, mod	Gravimetry	Ash	Yes	2	No

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Fuel analysis	Bulk density	SIS-CEN/TS 15401, mod	Gravimetry	Recovered fuels	Yes	2	No	
		SS-EN ISO 17828	Gravimetry	Biofuel	Yes	2	No	
			Gravimetry	Peat	Yes	2	No	
	Calorific value	ISO 1928	Bomb calorimeter	Ash	Yes	2	No	
			Bomb calorimeter	Coal	Yes	2	No	
		SS-EN ISO 18125	Bomb calorimeter	Biofuel	Yes	2	No	
			Bomb calorimeter	Peat	Yes	2	No	
		SS-EN ISO 21654	Bomb calorimeter	Recovered fuels	Yes	2	No	
		Carbon, C	ASTM D5373	Combustion	Coal	Yes	2	No
	Combustion			Organic waste	Yes	2	No	
	Combustion			Sludges/sediments	Yes	2	No	
	Combustion			Soil	Yes	2	No	
	SS-EN ISO 16948		Combustion	Biofuel	Yes	2	No	
			Combustion	Peat	Yes	2	No	
	SS-EN ISO 21663		Combustion	Ash	Yes	2	No	
			Combustion	Recovered fuels	Yes	2	No	
	Chloride	SS-EN ISO 10304-1	Ion chromatography	Waste water/Leach water	Yes	2	No	
Chlorine, Cl	ASTM-D4208	Closed combustion vessel/Ion Chromatography	Coal	Yes	2	No		
	SS 187185	Closed combustion vessel/Ion Chromatography	Peat	Yes	2	No		

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Fuel analysis	Chlorine, Cl	SS-EN 15408	Closed combustion vessel/Ion Chromatography	Recovered fuels	Yes	2	No	
		SS-EN ISO 16994	Closed combustion vessel/Ion Chromatography	Biofuel	Yes	2	No	
	Hydrogen, H	ASTM D5373	Combustion	Coal	Yes	2	No	
			Combustion	Organic waste	Yes	2	No	
			Combustion	Sludges/sediments	Yes	2	No	
			Combustion	Soil	Yes	2	No	
		SS-EN ISO 16948	Combustion	Biofuel	Yes	2	No	
			Combustion	Peat	Yes	2	No	
		SS-EN ISO 21663	Combustion	Ash	Yes	2	No	
			Combustion	Recovered fuels	Yes	2	No	
	Length and diameter	SS-EN ISO 17829		Biofuel	Yes	2	No	Bränslepellets
				Peat	Yes	2	No	Bränslepellets
	Mechanical strength	SS-EN ISO 17831-1	Tumbling/Sieving	Biofuel	Yes	2	No	Bränslepellets
			Tumbling/Sieving	Peat	Yes	2	No	Bränslepellets
	Moisture content	ISO 589, mod	Gravimetry	Coal	Yes	2	No	
SIS-CEN/TS 15414-2		Gravimetry	Ash	Yes	2	No		
		Gravimetry	Recovered fuels	Yes	2	No		
SS-EN ISO 18134-2		Gravimetry	Biofuel	Yes	2	No		
		Gravimetry	Peat	Yes	2	No		
Nitrogen, N	ASTM D5373	Combustion	Coal	Yes	2	No		
		Combustion	Organic waste	Yes	2	No		
		Combustion	Sludges/sediments	Yes	2	No		

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Fuel analysis	Nitrogen, N	ASTM D5373	Combustion	Soil	Yes	2	No	
		SS-EN ISO 16948	Combustion	Biofuel	Yes	2	No	
			Combustion	Peat	Yes	2	No	
		SS-EN ISO 21663	Combustion	Ash	Yes	2	No	
			Combustion	Recovered fuels	Yes	2	No	
	Oxygen, O	ASTM D 3176	Calculation	Coal	Yes	2	No	
		SS-EN 15400	Calculation	Recovered fuels	Yes	2	No	
		SS-EN ISO 18125	Calculation	Ash	Yes	2	No	
			Calculation	Biofuel	Yes	2	No	
			Calculation	Peat	Yes	2	No	
	Particle size distribution	SS-EN 15415-1	Sieving	Recovered fuels	Yes	2	No	
		SS-EN ISO 17827-1	Sieving	Biofuel	Yes	2	No	
			Sieving	Peat	Yes	2	No	
		SS-EN ISO 17827-2	Sieving	Biofuel	Yes	2	No	
			Sieving	Peat	Yes	2	No	
		SS-EN ISO 17830	Sieving	Biofuel	Yes	2	No	Råvara pellets
			Sieving	Peat	Yes	2	No	Råvara pellets
		SS-EN ISO 18846	Sieving	Biofuel	Yes	1	No	Bränslepellets
	Residual calorific value	ISO 1928	Bomb calorimeter	Ash	Yes	2	No	
		SS 187187	Bomb calorimeter	Ash	Yes	2	No	
	Sample preparation	ISO 11464		Soil	Yes	2	No	
ISO 18283			Coal	Yes	2	No		
SS 187114			Peat	Yes	2	No		
SS 187117			Ash	Yes	2	No		
SS-EN 15002			Waste	Yes	2	No		
SS-EN 15443			Recovered fuels	Yes	2	No		

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Fuel analysis	Sample preparation	SS-EN 16179		Organic waste	Yes	2	No	
				Sludges/sediments	Yes	2	No	
				Soil	Yes	2	No	
		SS-EN ISO 14780		Biofuel	Yes	2	No	
	Sulfur, S	ASTM-D4239	Combustion, IR	Coal	Yes	2	No	
		SS 187177	Combustion, IR	Peat	Yes	2	No	
		SS 187186	Combustion, IR	Ash	Yes	2	No	
		SS-EN 15408, mod	Combustion, IR	Recovered fuels	Yes	2	No	
		SS-EN ISO 16994	Combustion, IR	Biofuel	Yes	2	No	
	Total carbon, TC	SS-EN 13137	Combustion	Ash	Yes	2	No	
			Combustion	Biofuel	Yes	2	No	
			Combustion	Coal	Yes	2	No	
			Combustion	Organic waste	Yes	2	No	
			Combustion	Peat	Yes	2	No	
			Combustion	Recovered fuels	Yes	2	No	
			Combustion	Sludges/sediments	Yes	2	No	
			Combustion	Soil	Yes	2	No	
		SS-EN 15936	IR	Ash	Yes	2	No	
			IR	Biofuel	Yes	2	No	
			IR	Coal	Yes	2	No	
IR			Organic waste	Yes	2	No		
IR			Peat	Yes	2	No		
IR			Recovered fuels	Yes	2	No		
Total inorganic carbon, TIC	SS-EN 13137	IR	Ash	Yes	2	No		
		IR	Ash	Yes	2	No		

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Fuel analysis	Total inorganic carbon, TIC	SS-EN 13137	IR	Biofuel	Yes	2	No	
			IR	Coal	Yes	2	No	
			IR	Organic waste	Yes	2	No	
			IR	Peat	Yes	2	No	
			IR	Recovered fuels	Yes	2	No	
			IR	Sludges/sediments	Yes	2	No	
			IR	Soil	Yes	2	No	
		SS-EN 15936	IR	Ash	Yes	2	No	
			IR	Biofuel	Yes	2	No	
			IR	Coal	Yes	2	No	
			IR	Organic waste	Yes	2	No	
			IR	Peat	Yes	2	No	
			IR	Recovered fuels	Yes	2	No	
			IR	Sludges/sediments	Yes	2	No	
	Total organic carbon, TOC	SS-EN 13137	Calculation	Ash	Yes	2	No	
			Calculation	Biofuel	Yes	2	No	
			Calculation	Coal	Yes	2	No	
			Calculation	Organic waste	Yes	2	No	
			Calculation	Peat	Yes	2	No	
			Calculation	Recovered fuels	Yes	2	No	
Calculation			Sludges/sediments	Yes	2	No		
SS-EN 15936		Calculation	Ash	Yes	2	No		
		Calculation	Biofuel	Yes	2	No		
		Calculation	Coal	Yes	2	No		

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Fuel analysis	<b>Total organic carbon, TOC</b>	SS-EN 15936	Calculation	Organic waste	Yes	2	No	
			Calculation	Peat	Yes	2	No	
			Calculation	Recovered fuels	Yes	2	No	
			Calculation	Sludges/sediments	Yes	2	No	
			Calculation	Soil	Yes	2	No	
	<b>Unburned</b>	SS 187187	Gravimetry	Ash	Yes	2	No	
	<b>Volatile substances</b>	ISO 562, mod	Gravimetry	Coal	Yes	2	No	
		SS-EN ISO 18123	Gravimetry	Biofuel	Yes	2	No	
		SS-EN ISO 22167	Gravimetry	Peat	Yes	2	No	
	Leaching	<b>ANC, Acid Neutralisation Capacity</b>	SS-EN 14429	Titration	Ash	Yes	2	No
Titration				Sludges/sediments	Yes	2	No	Annex C mod
Titration				Waste	Yes	2	No	Annex C mod
<b>Conductivity</b>		SS-EN 27888	Electrode	Waste water/Leach water	Yes	2	No	
Leaching, column test		SS-EN 14405		Ash	Yes	2	No	
				Organic waste	Yes	2	No	
				Recovered fuels	Yes	2	No	
				Sludges/sediments	Yes	2	No	
				Soil	Yes	2	No	
				Waste	Yes	2	No	
Leaching, batch test		SS-EN 12457-1		Ash	Yes	2	No	
				Organic waste	Yes	2	No	
				Recovered fuels	Yes	2	No	
				Sludges/sediments	Yes	2	No	
				Soil	Yes	2	No	
			Waste	Yes	2	No		

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Leaching	Leaching, batch test	SS-EN 12457-2		Ash	Yes	2	No		
				Organic waste	Yes	2	No		
				Recovered fuels	Yes	2	No		
				Sludges/sediments	Yes	2	No		
				Soil	Yes	2	No		
				Waste	Yes	2	No		
			SS-EN 12457-3		Ash	Yes	2	No	
				Organic waste	Yes	2	No		
				Recovered fuels	Yes	2	No		
				Sludges/sediments	Yes	2	No		
				Soil	Yes	2	No		
				Waste	Yes	2	No		
			SS-EN 12457-4		Ash	Yes	2	No	
				Organic waste	Yes	2	No		
				Recovered fuels	Yes	2	No		
				Sludges/sediments	Yes	2	No		
				Soil	Yes	2	No		
				Waste	Yes	2	No		
		Moisture content	SS-EN 15934	Gravimetry	Sludges/sediments	Yes	2	No	Metod A
				Gravimetry	Soil	Yes	2	No	Metod A
				Gravimetry	Solid fuels	Yes	2	No	Metod A
	pH	SS-EN ISO 10523	Electrode	Waste water/Leach water	Yes	2	No		



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Changes in the scope of accreditation are in bold.

The scope of accreditation is flexible as specified in this decision. The accredited body must always retain a current list of the scope for which it is accredited.

Type of flexible scope

1: - Introduce new version of standard method and make editorial changes to non-standard method

2: - Introduce new version of standard method and make editorial changes to non-standard method - Introduce new version and modifications of non-standard method. The procedure must be equivalent - Introduce new parameter/component/characteristics - Introduce new measurement range - Introduce new material/new products/matrices - Introduce new method equivalent to methods already in the accreditation decision