

Date  
2025-06-27

Reference  
2024/3032

**Scope of accreditation**

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

SSAB EMEA AB

Luleå

Accreditation number

1083

Laboratoriet, Luleå

A001897-002

**Chemical analysis**

Technical area	Parameter	Method	Technique	Measure	Material
Inorganic chemistry	Aluminum, Al	ASTM E415-21, mod	OES	0,003-0,20 %	Steel
	Antimony, Sb	ASTM E415-21, mod	OES	0,002-0,025 %	Steel
	Arsenic, As	ASTM E415-21, mod	OES	0,001-0,1 %	Steel
	Boron, B	ASTM E415-21, mod	OES	0,0003-0,013 %	Steel
	Calcium, Ca	ASTM E415-21, mod	OES	0,0004-0,0077 %	Steel
	<b>Carbon, C</b>	<b>ASTM E1019-24</b>	<b>Combustion</b>	<b>0,001-0,800 %</b>	<b>Steel</b>
		ASTM E415-21, mod	OES	0,006-1,0 %	Steel
	Chromium, Cr	ASTM E415-21, mod	OES	0,001-2,0 %	Steel
	Cobalt, Co	ASTM E415-21, mod	OES	0,004-0,20 %	Steel
	Copper, Cu	ASTM E415-21, mod	OES	0,001-0,6 %	Steel
	Lead, Pb	ASTM E415:2021	OES	0,002-0,02 %	Steel
	Manganese, Mn	ASTM E415-21, mod	OES	0,01-3,0 %	Steel
	Molybdenum, Mo	ASTM E415-21, mod	OES	0,002-1,0 %	Steel
	Nickel, Ni	ASTM E415-21, mod	OES	0,003-2,0 %	Steel
	Niob, Nb	ASTM E415-21, mod	OES	0,002-0,15 %	Steel
	<b>Nitrogen, N</b>	<b>ASTM E1019-24</b>	<b>Combustion</b>	<b>0,0007-0,02 %</b>	<b>Steel</b>
	Phosphorus, P	ASTM E415-21, mod	OES	0,003-0,11 %	Steel
	Silicon, Si	ASTM E415-21, mod	OES	0,01-2,5 %	Steel
	Sulfur, S	ASTM E415-21, mod	OES	0,001-0,05 %	Steel
	Tin, Sn	ASTM E415-21, mod	OES	0,002-0,1 %	Steel
	Titanium, Ti	ASTM E415-21, mod	OES	0,003-0,29 %	Steel

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## Chemical analysis

<i>Technical area</i>	<i>Parameter</i>	<i>Method</i>	<i>Technique</i>	<i>Measure</i>	<i>Material</i>
Inorganic chemistry	Vanadium, V	ASTM E415-21, mod	OES	0,001-0,5 %	Steel
	Zinc, Zn	SS 028152, utg 2	AAS	0,05 – 0,50 mg/l	Sea water
			AAS	0,05 – 0,50 mg/l	Waste water/Leach water
Water analysis	<b>Ammonium as nitrogen</b>	<b>Inhouse method; Ammonium nitrogen with electrode, version 28</b>	<b>Electrode</b>	<b>0,1 – 10 mg/l</b>	<b>Fresh water</b>
			<b>Electrode</b>	<b>0,1 – 10 mg/l</b>	<b>Sea water</b>
			<b>Electrode</b>	<b>0,1 – 10 mg/l</b>	<b>Waste water/Leach water</b>
	Conductivity	SS-EN 27888, utg 1	Electrode	1-500 mS/m	Fresh water
			Electrode	1-500 mS/m	Sea water
			Electrode	1-500 mS/m	Waste water/Leach water
	Cyanide, accessible	SS 028177, utg 1	Photometry	0,01 – 0,25 mg/l	Fresh water
			Photometry	0,01 – 0,25 mg/l	Sea water
			Photometry	0,01 – 0,25 mg/l	Waste water/Leach water
	<b>pH</b>	<b>SS-EN ISO 10523:2012</b>	<b>Electrode</b>	<b>5-10 pH-enheter</b>	<b>Fresh water</b>
			<b>Electrode</b>	<b>5-10 pH-enheter</b>	<b>Sea water</b>
			<b>Electrode</b>	<b>5-10 pH-enheter</b>	<b>Waste water/Leach water</b>
	Phenols	SS 028128, utg 1		1-40 µg/l	Fresh water
				1-40 µg/l	Sea water
				1-40 µg/l	Waste water/Leach water
	Suspended solids	SS-EN 872:2005	Gravimetry	> 2 mg/l	Sea water
			Gravimetry	> 2 mg/l	Waste water/Leach water
	Total organic carbon, TOC	SS-EN 1484, utg 1	Combustion	1 – 100 mg/l	Fresh water
			Combustion	1 – 100 mg/l	Sea water
			Combustion	1 – 100 mg/l	Waste water/Leach water

Changes in the scope of accreditation are in bold.