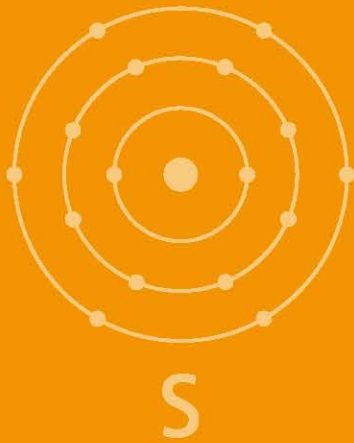


Calibration Standards / *Kalibrationsstandards*



ELTRA calibration materials are suitable for the following ELTRA analyzers:
ELTRA Kalibrationsmaterialien sind für folgende ELTRA Analytoren geeignet:

Calibration material / Name	ON-p	OH-p	ONH-p	H-500
<i>Kalibrationsmaterialien</i>				
91100-1001	Steel pins (ON)	✓	✓	✓
91400-xxxx	Steel pins (H)		✓	✓
91110	Steel balls (H)			✓
91000-xxx	Copper pins (O;S)	✓	✓	✓
91000/yyy	Copper pins (O)	✓	✓	✓
91205-xxxx	Titanium pins (ONH)	✓	✓	✓

Calibration material / Name	CS-i	CS 2000	C(H)S 580 C(H)S 580A	Surface C 800	CW 800	CW 800 M	TGA Thermostep
<i>Kalibrationsmaterialien</i>							
92400-30xx	Steel chips	✓	✓				
92400-30x	Cast iron	✓	✓				
92400-40xx	Steel chips	✓	✓				
91000-xxxx	Copper pins	✓	✓				
90816-xxxx	Tungsten carbide	✓	✓				
92511-xxxx	Coal		✓	✓			
92550-xxxx	Coal premium		✓	✓			✓
92560-xxxx	Coke premium		✓	✓			✓
90710-xxxx	EDTA		✓	✓		✓	
90700-1040	Calcium oxalate				✓	✓	✓
90810	Calcium carbonate	✓	✓	✓	✓	✓	✓
90821	Barium sulphate	✓	✓				
90824	Sulfanilic acid		✓	✓			
92530	Oil standard		✓	✓			
90860	Glycerine		✓	✓			
92811-xxxx	Cement	✓	✓				
90812-xxxx	Limestone	✓	✓	✓	✓	✓	
91900-xxxx	Ore	✓	✓	✓			
90817-xxx	Soil	✓	✓	✓	✓	✓	✓

Prices and further products on request | *Preise und weitere Materialien auf Anfrage*

All calibration standards are always subject to our final confirmation since the values may vary due to new lots.

Alle Kalibrationsstandards müssen von uns endgültig bestätigt werden, da die Werte der Chargen variieren können.



Content / Inhalt

Calibration Standards / Kalibrationsstandards

O/N/H certified / O/N/H zertifiziert

91100-xxxx	Steel, pins / Stahl, Pins (N)	5
91400-xxxx	Steel, pins / Stahl, Pins (H)	5
91110	Steel, balls/ Stahl, Kugeln	5
91000-xxxx	Copper, pins / Kupfer, Pins	5
91000/yyy	Copper, pins / Kupfer, Pins	6
91205-xxxx	Titanium / Titan	6

C/S certified for induction furnace / C/S zertifiziert für Induktionsofen

92400-30xx/yyy	Steel, chips / Stahlspäne	6
92400-30xx/yyy	Cast Iron, chips / Gusseisenspäne	7
92400-40xx/yyy	Steel, chips / Stahlspäne	7
90816-xxxx	Tungsten carbide / Wolframcarbid	7

C/S certified for resistance furnace / C/S zertifiziert für Widerstandsofen

92550-xxxx	Coal premium / Kohle Premium	7
92511-xxxx	Coal / Kohle	8
92560-xxxx	Coke premium / Koks Premium	8
92530	Oil standard / Öl Standard	8

C/S certified for induction and resistance furnace / C/S zertifiziert für Induktions- und Widerstandsofen

92811-xxxx	Cement / Zement	8
90812-xxxx	Limestone / Kalkstein	9
91900-xxxx	Ore/ Erz	9
90817-xxxx	Soil / Boden	9

Other Calibration Materials / Andere Kalibrationsmaterialien

90710-xxxx	EDTA / <i>EDTA</i>	9
90700-1040	Calcium oxalate / <i>Calciumoxalat</i>	9
90810	Calcium carbonate / <i>Calciumcarbonat</i>	10
90821	Barium sulphate / <i>Bariumsulfat</i>	10
90824	Sulfanilic acid / <i>Sulfanilsäure</i>	10
90860/yyy	Glycerine / <i>Glycerin</i>	10

Consumables / Verbrauchsmaterialien

88600-xxxx	Wrought Iron (high purity) / <i>Eisenzuschlag (hohe Reinheit)</i>	10
90800	Graphite / <i>Graphit</i>	10

O/N/H certified / O/N/H zertifiziert

91100-xxxx Steel, pins / Stahl, Pins – 100 pins – 1 g each/á 1 g

Item number / Artikelnummer	Lot	N-Range/ N-Bereich	N ppm	O ppm
91100-1001	815D	20 – 40 ppm N	20	6
91100-1002	417C	30 – 70 ppm N	35	88
91100-1003	316D	150 – 250 ppm N	202	30
91100-1004	914F	50 – 80 ppm N	57	112
91100-1005	717B	300 – 600 ppm N	542	44
91100-1006	616C	80 – 150 ppm N	124	226
91100-1007	516B	70 - 130 ppm N	107	146
91100-1010	714C	> 1000 ppm N	1450	29



91400-xxxx Steel, pins / Stahl, Pins (H)– 100 pins – 1 g each/á 1 g
(for / für ELEMENTRAC ONH-p / ELEMENTRAC OH-p / ONH 2000 / OH 900)

Item number / Artikelnummer	Lot	H-Range/ H-Bereich	H ppm
91400-1001	114A	0.5 – 1 ppm H	0.80
91400-1002	415C	1.5 – 4 ppm H	2.3
91400-1003	716B	> 5 ppm H	7.4

**91110-Steel, balls / Stahl, Kugeln – 100 balls, gold plated – 1 g each/
100 Kugeln mit Goldbeschichtung á 1 g**

Item number / Artikelnummer	Lot	H ppm
91110	20130729A	1.90
91110	20171103	2.30

91000-xxxx - Copper, pins / Kupfer, Pins – 100 pins – 1 g each/á 1 g

Item number / Artikelnummer	Lot	S ppm	O ppm
91000-1001	517E	12	490
91000-1002	1116C	16	316
91000-1004	816A	14	8



Prices and further products on request | Preise und weitere Materialien auf Anfrage

91000/yyy - Copper, pins / Kupfer, Pins – 100 pins – 1 g each/á 1 g

Item number / Artikelnummer	Lot	S ppm	O ppm
91000 /052	20170915H		855
91000 /053	20171019		777
91000 /054	20180122		194
91000 /055	20180123		388
91000 /056	20180124		325



91205-xxxx - Titanium / Titan – 100 pins – 0.1 g each/á 0.1 g

Item number / Artikelnummer	Lot	H-Range/ H-Bereich	H ppm	O ppm	N ppm
91205-1001	1116A	10 – 35 ppm H	13	1440	92
91205-1002	1017A	20 – 70 ppm H	44	1445	148
91205-1003	1116B	30– 90 ppm H	71	890	99
91205-1004	917A	60 – 120 ppm H	103	1300	80
91205-1005	916F	150 – 250 ppm H	207	1105	60

**C/S certified for induction furnace /
C/S zertifiziert für Induktionsofen**

92400-30xx/yyy Steel, chips / Stahlspäne – 100 g/150 g

NEW

Item number / Artikelnummer	Lot	C-Range/ C-Bereich	Weight/ Gewicht	S %	C %
92400-3020 /002	20130604B	0.001 - 0.01 %C	100 g	0.0015	0.0012
92400-3020 /004	516E	0.001 - 0.01 %C	150 g	0.0077	0.0050
92400-3030 /004	317D	0.01 – 0.05 %C	150 g	0.0266	0.0178
92400-3040 /009	317E	0.05 – 0.1 %C	150 g	0.0107	0.053
92400-3050 /013	814F	0.1 - 0.2 %C	150 g	0.037	0.182
92400-3060 /010	914A	0.2 - 0.5 %C	150 g	0.020	0.482
92400-3070 /005	1014E	0.5 – 1.0 %C	150 g	0.006	0.929

92400-30xx/yyy Cast Iron, chips / Gusseisenspäne – 150 g

NEW

Item number / Artikelnummer	Lot	C-Range/ C-Bereich	Weight/ Gewicht	S %	C %
92400-3090 /004	514D	2.0 - 3.0 %C	150 g	0.0162	1.99
92400-3100 /009	1014C	3.0 - 5.0 %C	150 g	0.023	4.20

92400-40xx/yyy Steel, chips / Stahlspäne – 150 g

NEW

Item number / Artikelnummer	Lot	S-Range/ S-Bereich	S %	C %
92400-4010	717F	ca. 0.1 %S	0.0948	0.160
92400-4020	215C	ca. 0.3 %S	0.270	0.462

90816-xxxx – Tungsten Carbide / Wolframcarbid – 100 g

NEW

Item number / Artikelnummer	Lot	C %	S %
90816-3001	914C	6.13	0.0009

**C/S certified for resistance furnace /
C/S zertifiziert für Widerstandsofen**

NEW

92550-xxxx-Coal premium / Kohle Premium – 50 g

Item number / Artikelnummer	Lot	S-Range/ S-Bereich	S %	C %	H %	Ash %	Volatine %
92550-3020	776216	< 1.0 %S	0.93	80.96	4.99	7.23	31.33
92550-3040	781516	1.0 - 3.0 %S	2.01	41.49	3.08	47.09	23.47
92550-3060	782118	> 3.0 %S	5.39	55.70	4.10	23.64	32.24

92511-xxxx-Coal / Kohle – 50 g

Item number / Artikelnummer	Lot	S-Range/ S-Bereich	S %
92511-3010	700117	0.1 - 0.5 %S	0.35
92511-3020	702417	0.5 - 1.0 %S	0.73
92511-3030	705517	1.0 - 1.5 %S	1.48
92511-3040	706717	1.5 - 2.0 %S	2.07
92511-3050	707617	2.0 - 3.0 %S	2.63
92511-3060	709714	3.0 - 4.0 %S	3.79
92511-3070	710317	4.0 - 5.0 %S	4.25
92511-3070	101112	4.0 - 5.0 %S	4.10
92511-3080	712914	> 5.0 %S	5.88



NEW

92560-xxxx-Coke premium/ Koks Premium – 50 g

Item number / Artikelnummer	Lot	S-Range/ S-Bereich	S %	C %	H %	Volatine %
92560-3010	772914	< 1.0 %S	0.77	88.69	< 0.1	0.47

92530 – Oil Standard / Öl Standard – 118 ml

Item number / Artikelnummer	Lot	S %
92530	047713	0.97

**C/S certified for induction and resistance furnace /
C/S zertifiziert für Induktions- und Widerstandsofen**

92811-xxxx – Cement / Zement – 100 g

Item number / Artikelnummer	Lot	SO ₃ -Range/ SO ₃ -Bereich
92811-3020	20130626A	2.0 – 4.0% S

90812-xxxx – Limestone / Kalkstein – 25 g

Item number / Artikelnummer	Lot	S %	C %
90812-3001	52199	0.044	11.97
90812-3002	101602	0.418	11.72

NEW

91900-xxxx – Ore / Erz – 30 g

Item number / Artikelnummer	Lot	S-Range/ S-Bereich	C %	S %
91900-1001	514A	ca. 1.4 %S	1.38	1.44
91900-1002	615D	ca. 4.0 %S	3.75	3.82

90817-xxxx – Soil / Boden – 25 g

Item number / Artikelnummer	Lot	S-Range/ S-Bereich	C %	S %
90817-3001	213A		2.24	2.08
90817-3002	1215A		0.11	0.11
90817-3003	1013C		1.26	1.25

Other Calibration Materials / Andere Kalibrationsmaterialien

90710-xxxx - EDTA / EDTA – 50 g

Item number / Artikelnummer	Lot	C %	H %
90710-3010	T15B032	41.10	5.52

90700-1040 – Calcium oxalate / Calciumoxalat – 50 g

Item number / Artikelnummer	Lot	Weight loss %	°C
90700-1040	S06D017	12.21 as H₂O	200
90700-1040	S06D017	18.97 as CO	450
90700-1040	S06D017	29.82 as CO₂	850

NEW

90810 – Calcium carbonate / *Calciumcarbonat* – 100 g

NEW

Item number / <i>Artikelnummer</i>	Lot	C %	W %
90810	C255416	12	43.97

90821 – Barium sulphate / *Bariumsulfat* – 50 g

Item number / <i>Artikelnummer</i>	Lot	S %
90821	/	13.70

90824 – Sulfanilic acid / *Sulfanilsäure* – 50 g

Item number / <i>Artikelnummer</i>	Lot	C %	H %	S %
90824	/	41.57	4.04	18.48

90860/yyy – Glycerine / *Glycerin* – 100 ml

Item number / <i>Artikelnummer</i>	Lot	C %	H %
90860	/	40.5	8.7

Consumables / *Verbrauchsmaterialien*

NEW

88600-xxxx – Wrought Iron (high purity) / *Eisenzuschlag (hohe Reinheit)* – 454 g

Item number / <i>Artikelnummer</i>	Lot	C-Range/ <i>C-Bereich</i>	Weight/ <i>Gewicht</i>	C %	S %
88600-0013	814H	< 0.001 %C	454 g	0.0006	0.0017

90800 – Graphite / *Graphit* – 50 g

Item number / <i>Artikelnummer</i>	Lot	C %
90800	/	100