



表面碳分析仪

SurfaceC-800

表面碳浓度的测定是金属和金属加工业生产中质量控制的特殊要求。ELTRA SurfaceC-800分析仪是专业测定多种固体样品表面碳浓度，量级达1000µg/cm²。

SurfaceC-800配备有电阻炉，带氧化物分析用的石英管，最高温度可达1000度。1度可调，SurfaceC-800的载气一般选择氧气。

ELTRA SurfaceC-800的检测系统非常灵敏可靠，寿命长。它可以根据用户的要求定制。两个独立的红外检测池进行大量级别表面碳浓度的精确测量。

应用实例

铝, 陶瓷, 金属, 钢炭材料

优点

- | 分析快速、精准、可靠
- | 分析范围广泛
- | 电阻炉温度可设定为1000°C，步长为1°C。
- | 可定制测量范围
- | 软件功能强大 (多语言，可定制显示，输出的结果)
- | 单点、多点校正
- | 电子气体流量控制
- | 无需保养
- | 构造结实，可用于实验室和生产控制
- | 标准物质或气体量校准
- | 最小量的样品测定表面碳含量
- | 看用于大尺寸样品 (最大 32 x 145 mm)
- | 可选镀金检测池，专门针对分析含卤素或酸性样品，可以防止腐蚀。
- | ????????????????

作用原理

SurfaceC-800操作简单，方便。SurfaceC-800温度最高可达1000°C。输入样品表面尺寸后，样品放入石英舟。接下来的分析中将自动开始，石英舟将被推入炉腔热区的燃烧管中。

燃烧气体通过氧化铜催化剂导入，通过红外检测池测定CO₂。所有的数据处理，燃烧过程控制和最终结果标定都在外部电脑上进行。CO₂浓度测量只需要60-90秒。

表面碳分析仪 SURFACE C-800

技术参数

分析元素	碳
样品	无机
炉子校准	水平
载样	石英舟
应用领域	陶瓷, 钢铁冶金
炉子	石英管电阻炉, 可调至1000°C
最大样品尺寸	32 x 145 mm
检测方式	固态红外吸收
红外检测池数量	1 - 2
红外检测池材料	铝(可选金)
典型分析时间	60 - 90 s
化学品	高氯酸镁, 氢氧化钠
载气	99.5 % 纯氧(2 - 4 bar / 30 - 60 psi)
功率要求	230 V, 50/60 Hz, max. 10 A, 2300 W
设备尺寸 (宽x高x深)	55 x 80 x 60 cm
重量	~ 65 kg
所需设备	电脑,显示器,天平(精度0.0001克)
选配件	稳压器5 KVA

www.eltrachina.cn/surfaceC800

ORDER DATA

ELTRA SURFACEC-800

(Please order PC, monitor, balance and consumables (starter-kit, anhydrone, sodium hydroxide, copper oxide) separately)

88100-4031		SurfaceC-800 1xC	0.1 – 100 µg/cm ²
88100-4032		SurfaceC-800 2xC	0.1 – 100 µg/cm ² 1 – 1,000 µg/cm ²
88100-4045		SurfaceC-800 1xC	10 – 1,000 µg/cm ²

REQUIRED ACCESSORIES

PC, MONITOR, BALANCE

71015-1000	Computer with Intel Core i5-8400 Processor, 256 GB SSD; 8 GB RAM; Windows 10 operating system; keyboard; mouse
88400-0584	Monitor, TFT (23.8")
88400-0645	Balance (resolution 0.0001 g)

REQUIRED CONSUMABLES / CHEMICALS FOR FIRST OPERATIONS

88500-0011	Starter-kit (3 quartz boats, 50 g glass wool and quartz wool)
90200	 Anhydrone (magnesium perchlorate), 454 g 1)
90210	 Sodium hydroxide, 500 g 1)
90289	 Copper II oxide, 100 g 1)

FURTHER OPTIONS AND CONSUMABLES

ACCESSORIES (HARDWARE)

72070	Oxygen regulator
88400-0610	Barcode scanner

CHEMICALS (FILLINGS FOR GLASS AND QUARTZ TUBES)

90200  Anhydron (magnesium perchlorate), 454 g l)

90210  Sodium hydroxide, 500 g l)

90289  Copper II oxide, 100 g l)

90331  Glass wool, 454 g

90332  Glass wool, 50 g

90330  Quartz wool, 50 g

92610  Tube of high vacuum grease, 35 g

BOATS

36120  Quartz boat, 75 x 16 x 7.5 mm, 1 piece

46160  Combustion boat SurfaceC-800

88400-0502  Re-usable inconel boat, 54 x 18 x 13.5 mm, 1 piece

88400-0503  Re-usable inconel boat, 54 x 18 x 9 mm, 1 piece

TOOLS FOR OPERATION: SPATULAS, TWEEZERS, TONGS AND OTHER

36216  Combustion boat insertion stick, 1 piece

36217  Combustion boat removing stick, 380 mm, 1 piece

36218-2001 Combustion boat removing stick, 600 mm, 1 piece

46245 Boat tray

88400-0229		Tweezers (160 mm), curved, 1 piece
88400-0472		Tweezers (145 mm), straight, 1 piece
88400-0475		Set with 6 spatula and 1 tweezers, for multiple weighing procedures
88400-0477		Weighing boat, 1 piece, for weighing and usage of granulates
90145		Tongs for ceramic crucibles and boats, 220 mm, 1 piece

TOOLS FOR MAINTENANCE

46200-8000		Maintenance kit SC-800
71010		Brush, 16 mm, 1 piece, for cleaning balance from dust
88400-0473		Powder funnel (plastics), 1 piece, for easy filling of chemical tubes
88400-0489		Rubber plug 14 x 20 x 24 mm, 1 piece, for sealing small glass tubes like 88400-0006
88600-0027		Sodium hydroxide, Anhydrone filter tube, for sealing small glass tubes like 88400-0006

CALIBRATION MATERIALS

**Calibration materials may show slight variations depending on the current lot.
To see the current certification please visit www.ELTRA.com.**

LIMESTONE

90812-3003	Limestone, 25 g, < 5 % C
90812-3004	Limestone, 25 g, 5 – 10 % C

SOIL

90817-3001	Soil, 25 g, > 2 % C, S
90817-3002	Soil, 25 g, < 1 % C, S
90817-3003	Soil, 25 g, > 2 % C, S

90817-3004 Soil, 25 g, < 2 % C, < 1 % S

SPARE AND WEAR PARTS SURFACEC-800

FRONT SIDE

11035		Device fan
11064		Reagent tube (2 pieces)
11170		Balston filter
11480		Adjustable restrictor
15083		Flow meter 15 l/h
15084		Flow meter 60 l/h
15085		Flow meter 120 l/h
46157		Boat holder (glass cover)
72010		Pressure gauge
78017		Main power switch

FURNACE

20040		Quartz reagent tube
46156		Combustion tube
46209		Furnace
46200-2003		Angle combustion tube SC 800
46200-8000		Maintenance kit SC 800
48767		Thermocouple
70287		O-ring 19 x 5 mm
70340		O-ring 27 x 5 mm
77140		HF filter
77450		Thermoswitch

Please note: Every analyzer requires PC, monitor, balance and some consumables (crucibles, chemicals) which have to be ordered separately