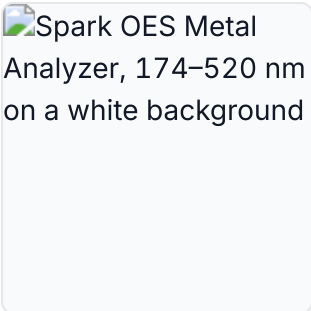
DATASHEET · ANALYTICAL INSTRUMENTS

Spark OES Metal Analyzer, 174–520 nm.

SKU CS-ANL-00007 **Spec** v1 **Rev.** 2026-07-08



VERIFIED

Spec v1 · 2026-07-08

PRODUCT SPECIFICATIONS

FROM PUBLISHED PRODUCT DATA

OPTICAL SYSTEM	Optical chamber with argon self-purification system	OPTICAL SYSTEM - CHAMBER	Optical chamber with argon self-purification system
OPTICAL SYSTEM - WAVELENGTH RANGE	174~520 nm	SOURCE	Programmable full digital pulse source
SOURCE - IGNITION	High energy pre-ignition technology, ignition pulse: 1~14Kv	SOURCE - DISCHARGE	Maximum discharge frequency: 1000Hz, Maximum discharge current: 400A
SOURCE - EXCITATION PULSE	Spark excitation pulse: 20~230V, Arc excitation pulse: 20~60 V	POWER SUPPLY VOLTAGE	(220 ± 20) V AC, (50 ± 1) Hz, single power supply with protective grounding
POWER	Maximum excitation frequency: 400W, Average standby power: 50W	ENVIRONMENTAL REQUIREMENTS	Working temperature: 10~30 , Storage temperature: 0~45 , Working humidity: 20~80% RH
SPARK STAND	Opened sample operation platform, which can be equipped with various sample adapters for special applications to meet different small sample analysis needs	SPARK STAND - ARGON FLUSHING	Optimized argon flushing design, better argon saving and spark stability
SPARK STAND - MAINTENANCE	Easy to clean and maintain, intelligent reminder of maintenance cycle	APERTURE OF SPARK STAND	13mm (optional: 6mm)

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PRODUCT SPECIFICATIONS, CONTINUED

FROM PUBLISHED PRODUCT DATA

ARGON	Burning flow is about 3.5L/min, maintaining and standby flow is about 0.1L/min
DIMENSIONS AND WEIGHT	Length: 818mm, width: 590, height: 396mm weight: about 70Kg
MODEL F	None
MODEL S	Suitable for nonferrous metal analysis and meet the matrix analysis requirements such as Al, Cu, Zn, and Mg
SOURCE (SHARED)	Programmable full digital pulse source; High energy pre-ignition technology, ignition pulse: 1~14Kv; Maximum discharge frequency: 1000Hz, Maximum discharge current: 400A; Spark excitation pulse: 20~230V, Arc excitation pulse: 20~60 V
SPARK STAND (SHARED)	Opened sample operation platform, which can be equipped with various sample adapters for special applications to meet different small sample analysis needs; Optimized argon flushing design, better argon saving and spark stability; Easy to clean and maintain, intelligent reminder of maintenance cycle; Aperture of spark stand: 13mm (optional: 6mm)
ARGON FLOW	Burning flow is about 3.5L/min, maintaining and standby flow is about 0.1L/min
EMC	IEC 610004-2, 61000-4-4, 61000-4-5
MODEL N	Suitable for all matrix analysis and can meet the matrix analysis requirements such as Fe, Al, Cu, Ni, and Zn
OPTICAL SYSTEM (WAVELENGTH RANGE)	Wavelength Range: 174~520 nm
POWER SUPPLY AND ENVIRONMENTAL REQUIREMENTS (SHARED)	Power supply voltage: (220 ± 20) V AC, (50 ± 1) Hz, single power supply with protective grounding; Maximum excitation frequency: 400W, Average standby power: 50W; Working temperature: 10~30 ℃, Storage temperature: 0~45 ℃, Working humidity: 20~80% RH
ARGON (SHARED PURITY/PRESSURE)	Purity: 99.999%, Pressure: 0.5MPa

DATASHEET · ANALYTICAL INSTRUMENTS

Spark OES Metal Analyzer, 174–520 nm.

SKU CS-ANL-00007 **Spec** v1 **Rev.** 2026-07-08

PRODUCT SPECIFICATIONS, CONTINUED

FROM PUBLISHED PRODUCT DATA

EMC (SHARED)	IEC 610004-2, 61000-4-4, 61000-4-5	AVAILABILITY	On back-order

CONTINUOUSLY VERIFIED · SPEC V1

Specifications verified against current published product data. **Verified 2026-07-08 · Since 2026-07-08.**

Cite: ConductScience CS-ANL-00007, Spec v1, 2026-07-08. conductscience.com/lab/spark-oes-metal-analyzer-174-520nm