



CARBON AND SULFUR ANALYZER

Carbon and Sulfur Analyzer TT-CSA1500, equipped with a high-frequency furnace and infrared detection, is the perfect tool for quickly and accurately analyzing carbon and sulfur content in solid materials.

Carbon and Sulfur Analyzer TT-CSA1500 excels with metallic substances and other inorganic materials like ceramics, ores, cement, and clays. The solid sample undergoes combustion in a ceramic crucible within a sealed high-frequency furnace, pressurized by pure oxygen flow.

The High Frequency furnace's power is adjustable to ensure optimal combustion. Detection of resulting reaction gases, CO₂ and SO₂, is done via solid-state IR detectors. This system features high analytical speed, precision, and sensitivity, while being user-friendly and nearly maintenance-free.

APPLICATIONS

The Carbon and Sulfur Analyzer TT-CSA1500 is designed for analyzing solids, particularly metallic materials, but also works well with other inorganic materials such as ceramics, ores, cement, and clays.

Standards: ASTM E1019, DIN EN ISO 9556, DIN ISO 15350

FEATURES

- Get simultaneous carbon and sulfur results with minimal sample prep.
- Our user-friendly software makes analysis a breeze, so you can focus on results.
- We use cutting-edge Infrared Technology with advanced optics, eliminating gold reflection tube concerns.
- Count on our reliable electronics and hardware to quickly troubleshoot common issues.
- Enjoy precise and speedy measurements every time.
- Analyze a wide variety of inorganic materials effortlessly.

- Keep maintenance low with our system.
- Our sturdy design suits both production control and lab settings.
- The Auto Cleaner ensures hassle-free maintenance with noiseless, vacuum-free dust removal directly into the crucible.

TECHNICAL SPECIFICATIONS

Standards	ASTM E1019, DIN EN ISO 9556, DIN ISO 15350
Measured elements	Carbon(C) 0.0001% -15.0000% , Sulfur (S) 0.0001% -5.0000%
Samples	Inorganic
Electronic balance	Weighing range: 0-100g (resolution 0.0001g)
Furnace alignment	Vertical
Sample carrier	Ceramic crucibles
Field of application	Construction materials, engineering / electronics, geology / mining, glass / ceramics, steel / metallurgy
Furnace	High frequency furnace, 3.5KVA 20MH z
Detection method	Solid state infrared absorption
Typical analysis time	26 - 60 s, Average: 35 s
Gas required	Industry Oxygen 99.2 %
Power requirements	AC 220 V, $\pm 5\%$ 50H z $\pm 2\%$ (110V also available)
Dimensions (W x H x D)	54 x 81 x 60 cm
Weight	80kg
Required equipment	Electronic balance, monitor, PC

Operating temperature	0-30 °C RH:<75%
Optional accessories	Printer, PC



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