

## GRAPHITE PRODUCTS

When performing Combustion analysis, sample preparation by Fusion, Rotating Disk Electrode Spectroscopy (RDE) or Atomic Absorption Spectroscopy, you can rely on **SCP SCIENCE / CONOSTAN®** for all of your graphite needs.

Made from the highest purity graphite, our products are precisely machined, and packaged with care, to ensure the highest level of quality and customer satisfaction.

- 270** Gas Fusion Crucibles
- 270** Graphite Furnace Tubes
- 271** Graphite Fusion Crucibles
- 272** Rotating Disk Electrode - Rods and Disks
- 272** Crater and Counter Electrodes

## Gas Analysis Crucibles

Machined with tight tolerances and under strict quality control conditions, **SCP SCIENCE** crucibles are guaranteed to meet or exceed OEM specifications.

Inert Gas Fusion Crucibles for Oxygen, Nitrogen, and Hydrogen Determinations using Leco™ 736 Series, 836 Series, 400/500/600 Series, RHEN602 Instruments

Description	Qty	Cross Reference	Catalog No.
High Temperature Crucible	1000	782-720	110-100-501
Outer Crucible	50	775-433	110-100-502
Inner Crucible	1000	775-431	110-100-503
Crucible	1000	767-277	110-100-504
Crucible (for typical N/O analysis)	1000	776-247	110-100-505
Crucible	1000	760-034	110-100-516
Crucible (RH/1E)	1000	762-213	110-100-517
Crucible (RH-1EN)	1000	764-330	110-100-518
Short Crucible (RH-2)	100	769-520	110-100-519
Tall Crucible (RH-3)	100	769-761	110-100-520
Cover (for 110-100-519/520)	100	769-569	110-100-521
Crucible	1000	760-414	110-100-523

## GRAPHITE FURNACE TUBES



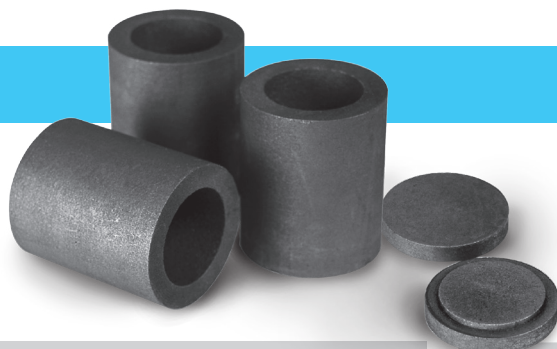
Features
A wide selection of products is available
Cross referenced to OEM part numbers, where applicable
Special custom crucibles are available



High purity, high density graphite is used to manufacture **SCP SCIENCE** graphite tubes. The tubes exhibit an extremely low Coefficient of Thermal Expansion (CTE) which ensures less stress placed upon the pyrolytic coating, thereby increasing their usable lifetime.

Features
Thermal conductivity is uniform - Allows consistent and even heating
Provide high sensitivity and low noise characteristics - Tubes meet and exceed OEM specifications
For ordering information see page 238

## Fusion Crucibles

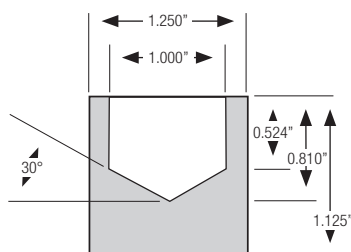


### GRAPHITE FUSION

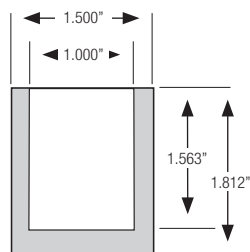
SCP SCIENCE offers a variety of graphite crucibles for multiple fusion techniques. Reduce operating costs by ordering graphite crucibles instead of platinum/gold crucibles. Available in two purities (regular or high-purity) and in-stock for quick delivery. Custom styles and sizes are available.

Grades	Type	Description	Grade	Qty	Catalog No.
<b>High Purity Graphite</b> Contains a maximum combined impurity level of 2 ppm for all elements - Ideal for trace-level analysis	Fusion Crucible	Conical, 9 ml volume	Regular	100	040-060-010
	Lid	for 9 ml crucible	Regular	10	040-060-013
<b>Regular Purity Graphite</b> Offers minimal impurities for maximum protection against contamination. Impurities range from 10 to 100 ppm (Mg, Fe, Al, Si, and Cu). Graphite will not combine with samples during fusion.	Lid	for 9 ml crucible	Regular	100	040-060-022
	Fusion Crucible	Conical, 9 ml volume	High Purity	10	040-060-011
	Lid	for 9 ml crucible	High Purity	10	040-060-012
	Fusion Crucible	Conical, 9 ml volume	High Purity	100	040-060-015
	Fusion Crucible	Conical, 9 ml w/Lid	Regular	1	040-060-020
	Fusion Crucible	Cylinder, 11 ml volume	Regular	1	040-060-024
	Fusion Crucible	Cylinder, 11 ml volume	Regular	10	040-060-026
	Fusion Crucible	Cylinder, 20 ml volume	Regular	10	040-060-030
	Lid	for 20 ml crucible	Regular	10	040-060-032
	Fusion Crucible	Cylinder, 20 ml volume	High Purity	10	040-060-031
	Lid	for 20 ml crucible	High Purity	10	040-060-033
	Casting Crucible	casts 34 mm disks	Regular	10	040-060-040
	Casting Crucible	casts 34 mm disks	High Purity	10	040-060-041
	Lid	for casting crucible	Regular	100	040-060-042
	Lid	for casting crucible	High Purity	100	040-060-043
	Lid	for casting crucible	Regular	1	040-060-044
Crucible	55 ml volume	Regular	1	040-060-050	
Mini Crucible, 1.5 ml	10 mm id, 20 mm depth	High Purity	500	040-060-054	
Mini Crucible, 3 ml	12 mm id, 25 mm depth	High Purity	500	040-060-056	

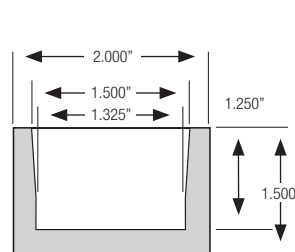
### Measurements



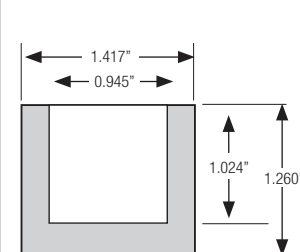
Conical, 9 ml Crucible



Cylinder, 20 ml Crucible



Casting Crucible



Cylinder, 11 ml Crucible

## ROTATING DISK ELECTRODE (RDE) SPECTROSCOPY - ELECTRODES

Introducing **CONOSTAN**<sup>®</sup> graphite electrodes for RDE Spectrometers, made from the highest purity graphite and machined precisely to very tight tolerances. Conveniently packaged and competitively priced, just choose the right electrodes for your instrument.

Description	Designed for	Cross Reference No.	Catalog No.
D2 Rotating Disk (100)	Baird, MOA, GNR	9100001	070-070-001
D2 Rotating Disk, angled (500)	Spectroil M	MR9019	070-070-002
D2 Rotating Disk (500)	Spectroil M	M97008	070-070-003
D2 Rotating Disk, High Porosity (500)	RFS		070-070-101
Graphite Rods, .242" x 4" (100)	General		070-071-001
Graphite Rods, .242" x 6" (100)	Spectroil M Baird, MOA, GNR	M97009 9100002	070-071-002
Graphite Rods, .242" x 12" (100)	General		070-071-003

Reference Electrode

AC Arc

Rotating Electrode



FOR A  
COMPLETE LIST  
OF **CONOSTAN**<sup>®</sup>  
S-21 & D-SERIES  
ROTRODE STANDARDS  
SEE PAGE 215

## CRATER & COUNTER ELECTRODES

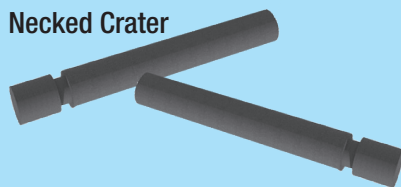
Standard graphite crater and counter electrodes for DC ARC Spectroscopy are available from **SCP SCIENCE**. For additional styles, please contact your **SCP SCIENCE** Sales Representative or local distributor.

Type	ASTM Destination	Length (cm)	Diameter (cm)	Tip	Qty	Catalog No.
Necked Crater	S-4	3.81 (1.5)	.615 (.242)	.475 H x .16 Dia. cm Crater	100	060-070-001
Necked Crater	S-13	3.81 (1.5)	.615 (.242)	.478 H x .345 Dia. cm Crater	100	060-070-003
Necked Crater	1011	3.81 (1.5)	.457 (.180)	.318 H x .239 Dia. cm Crater	100	060-070-006
Toadstool	PD-1	3.81 (1.5)	---	---	5	060-070-020
Pointed Counter	C-1	3.81 (1.5)	.305 (.120)	8° Pointed	100	060-070-055
Rounded Counter	C-180	3.81 (1.5)	.457 (.180)	15° Rounded	100	060-070-060
Undercut Counter	C-8	3.81 (1.5)	.615 (.242)	Flat	100	060-070-070

Toadstool



Necked Crater



Pointed Counter

