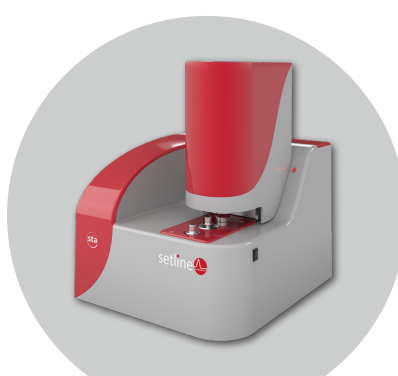


**Crucibles for SETLINE line: Specifications and applications****INTRODUCTION**

For TGA, DSC or STA experiments, the choice of the crucibles is crucial for the analysis and is function of different parameters such as the quantity and shape of the sample, the maximum temperature, pressure, the type of gas used for the test, the chemical compatibility with the sample etc...

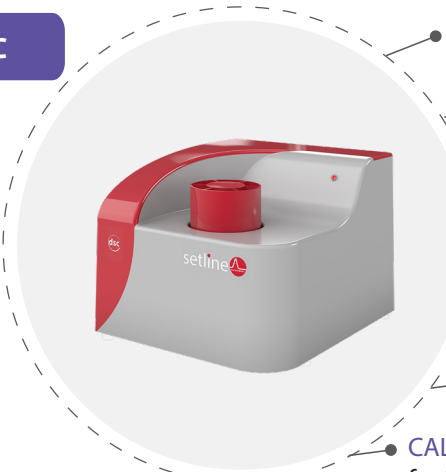
This technical note lists the crucibles available with the SETLINE instruments at the time of writing. However, this list is not fixed and SETARAM always offers its special development services in case an adaptation of the crucibles mentioned seems necessary.

**SETLINE DSC****SETLINE STA****SETLINE TGA**

# 1. SETLINE DSC & Crucibles

## INSTRUMENT

**SETLINE DSC**  
 -170 to 700°C
















- **EASY TO USE WITH ROBUST SENSOR TECHNOLOGY**  
ensuring quality, consistent and reliable data
- **AVAILABLE WITH HIGH PRESSURE CRUCIBLES**  
up to 500 bar at 600°C
- **REASONABLY PRICED INSTRUMENT & SENSOR**  
for easy, cost effective replacement
- **LOWER COST OF OWNERSHIP**  
through simplified maintenance and a Replacement Parts Guarantee
- **TECHNICAL & APPLICATION SUPPORT**  
for fast expert help with any questions
- **CALISTO 2.0 EXCLUSIVE SOFTWARE**  
for intuitive and easy data handling

## CRUCIBLES

Main functions and applications :

Thermal stability (decomposition, desorption, dehydration, etc.), composition analysis, phase transitions (melting, crystallization), heat capacity (Cp) of materials.

CRUCIBLE / COVER		MAIN APPLICATION	MAXIMUM TEMPERATURE	MAXIMUM INTERNAL VOLUME	APPROX DIMENSIONS
Aluminum <i>S08HBB37408</i>		For low temperature analysis and small amount of sample. Used alone or with cover S08HBB37409	550°C	30µl	Diameter: 6.7mm Height: 3mm
Aluminum <i>S0812768</i>		For low temperature analysis and large amount of sample. Used alone or with aluminum covers listed below	550°C	120µl	Diameter: 6.7mm Height: 5.5mm
Aluminum cover (non-tight) <i>S08HBB37409</i>		For measuring effects without off-gassing (phase transitions, glass transition, cross-linking).	550°C	N/A	Diameter: 6.7mm
Aluminum cover (tight) <i>S0812726</i>		Used when it is necessary to slightly offset the temperature of an effect with gas release.	550°C	N/A	Diameter: 6.7mm

CRUCIBLE / COVER		MAIN APPLICATION	MAXIMUM TEMPERATURE	MAXIMUM INTERNAL VOLUME	APPROX DIMENSIONS
Pierced aluminum cover <i>S0812727</i>		For effect measurements with gas release, such as dehydration.	550°C	N/A	Hole diameter: 0.6mm Cover diameter: 6.7mm
Pierced aluminum cover <i>S08HBB51897</i>		For boiling point measurements.	550°C	N/A	Hole diameter: 0.05mm Cover diameter: 6.7mm
Alumina <i>S08HBD52690</i>		For high temperature analysis	700°C	30 µl	Diameter: 6.7mm Height: 3mm
Alumina cover <i>S08HAS29354</i>		To limit sample overflow or gas exposure	700°C	N/A	Diameter: 6.7mm
Copper <i>S08HBB51900</i>		For OIT experiments	300°C	30µl	Diameter: 6.7mm Height: 3mm
Copper cover <i>S08HBB51901</i>		To limit sample overflow or gas exposure	300°C	N/A	Diameter: 6.7mm
Incoloy <i>S6058186</i>		High pressure resistant crucible for decomposition analysis	500bar – 600°C	30µl	Diameter: 6.8mm Height: 7mm
Stainless steel <i>S1000339</i>		High pressure resistant crucible for decomposition analysis	200bar – 400°C	30µl	Diameter: 6.8mm Height: 5.5mm
Gold plated stainless steel <i>S1000522</i>		High pressure resistant crucible for decomposition analysis	200bar – 400°C	30µl	Diameter: 6.8mm Height: 5.5mm

## 2. SETLINE STA & Crucibles

### INSTRUMENT

#### SETLINE STA

Ambient to 1100°C



#### HIGH QUALITY, CONSISTENT AND RELIABLE DATA

high sensitivity balance specifically designed for TGA analysis and true plate shaped DSC transducer

#### CONVENIENTLY DESIGNED

robust balance and DSC sensor technology with an easy DSC sensor access and replacement

#### REASONABLY PRICED INSTRUMENT & SENSOR

for easy, cost effective replacement

#### LOWER COST OF OWNERSHIP

through simplified maintenance and a Replacement Parts Guarantee

#### TECHNICAL & APPLICATION SUPPORT

for fast expert help with any questions






#### CALISTO 2.0 EXCLUSIVE SOFTWARE

for intuitive and easy data handling

### CRUCIBLES

#### Main functions and applications :

Thermal stability (decomposition, desorption, dehydration, etc.), composition analysis (e.g. ash & filler content, water content, binder, organic matter, etc).

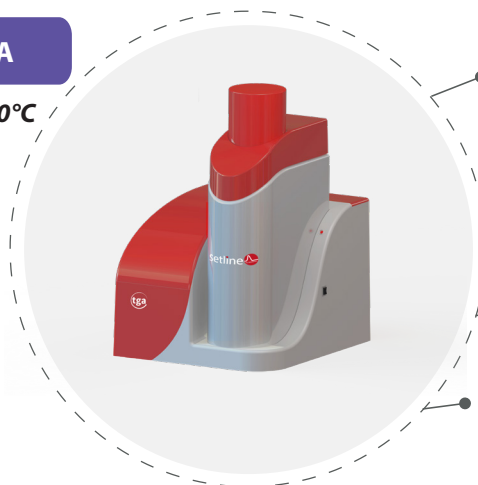
CRUCIBLE / COVER		MAIN APPLICATION	MAXIMUM TEMPERATURE	MAXIMUM INTERNAL VOLUME	APPROX DIMENSIONS
Aluminum S08GAF58402		For low temperature analysis	500°C	80µl	Diameter: 4.9mm Height: 8mm
Aluminium cover S08GAF58403		For measuring effects without off-gassing (phase transitions, glass transition, cross-linking).	500°C	N/A	Diameter: 4.9mm
Alumina S08GR.29467		For high temperature analysis	1100°C	90µl	Diameter: 5mm Height: 8mm
Alumina cover S08GG.28204		To limit sample overflow or gas exposure	1100°C	N/A	Diameter: 5mm
Platinum-Rhodium S08GR.30092		For high temperature analysis	1100°C	100µl	Diameter: 5mm Height: 8mm
Platinum cover S08AAU931		To limit sample overflow or gas exposure	1100°C	N/A	Diameter: 5mm

### 3. SETLINE TGA Crucibles

#### INSTRUMENT

##### SETLINE TGA

Ambient to 1100°C



##### ACCURACY MADE ACCESSIBLE

with a simple and reliable hang-down balance, specially designed for TGA applications

##### LOWER COST OF OWNERSHIP

through simplified maintenance and a Replacement Parts Guarantee

##### TECHNICAL & APPLICATION SUPPORT

for fast expert help with any questions




##### CALISTO 2.0 EXCLUSIVE SOFTWARE

for intuitive and easy data handling

#### CRUCIBLES

Main functions and applications :

Thermal stability (decomposition, desorption, dehydration, etc.), composition analysis.

CRUCIBLE / COVER		MAIN APPLICATION	HANDLE MATERIAL	MAXIMUM TEMPERATURE	MAXIMUM INTERNAL VOLUME	APPROX DIMENSION
Alumina S0811292		For high temperature analysis	Platinum-Rhodium	1100°C	170µl	Diameter: 8mm Height: 6mm
Platinum-Rhodium S0811293		For high temperature analysis	Platinum-Rhodium	1100°C	130µl	Diameter: 8mm Height: 3mm
Aluminum S08ACF3430		For Low temperature analysis and large quantity of sample	Inconel	500°C	250µl	Diameter: 8mm Height: 6mm