

# METACUP SAMPLING CUPS

## for THERMAL ANALYSIS

### DESCRIPTION

Expendable sampling cups are used to determine the thermal arrests in the cooling curve of molten Iron. Compatible with standard cup stands and instruments, the shell is manufactured using high grade Silica sand. The volume of the cups offers the best compromise between measuring time and consistency of the results. Available in popular square and round cavity styles, with Tellurium and Sulphur inoculant options for quick and accurate analysis.

### FEATURES

- ▣ Quick and Accurate Melt quality determination
- ▣ Compatible with all thermal analysis systems
- ▣ With or without Tellurium and/or Sulphur
- ▣ Available with square and round cavities for analysis comparable with similar products
- ▣ Square shape fits on standard cup stands
- ▣ Thermocouple protected by Quartz tube
- ▣ Manufactured under strict ISO Quality Standards
- ▣ Quick Shipping from USA

### CUP TYPES

#### Metacup Te

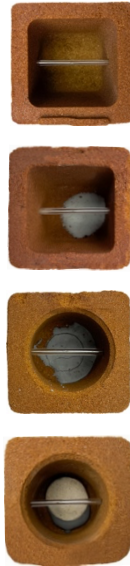
Tellurium on the bottom suppresses undercooling and promotes white solidification. Commonly used to calculate Carbon Equivalent, Carbon, and Silicon content.

#### Metacup

Without Tellurium, resulting in grey solidification. Used to determine eutectic undercooling and CE.

#### Metacup TeS

With both Tellurium and Sulphur for Magnesium treated nodular and vermicular cast iron



### Technical Specifications

<b>Thermocouple Type</b>	K
<b>Calibration Standard</b>	IPTS 68
<b>Thermocouple Accuracy</b>	±0.75%
<b>Recommended Measurement Temperature Range</b>	932°F-2462°F 500°C-1350°C
<b>Resin Content</b>	2.5%
<b>Mold Sand Grade</b>	AFS 60-70
<b>Core Hardness</b>	4.2 MPa
<b>Shelf Life</b>	12 months minimum
<b>Height</b>	2.05" (52mm)
<b>Width</b>	2.00" (51mm)
<b>Weight</b>	4-4.4 oz. (115-125g)
<b>Handling &amp; Storage</b>	Handle with care and store in a dry environment

### You've Been Using Our Products Since 1975!

SYSCON International, Inc. has manufactured molten metal temperature measuring and thermal analysis systems for a major private-label customer since 1975. Additional SYSCON Sensors products include:

- ▣ TS-1 Handheld Digital Pyrometer
- ▣ WM-1 Wall-Mount Digital Pyrometer
- ▣ FL-1 Ferrolab Thermal Analysis System
- ▣ Single & Multi-Use Thermocouple Tips
- ▣ Sampling Cups
- ▣ Steel Samplers
- ▣ Repair, Replacement Parts, & Calibration Services

### Ordering Information

<b>METACUP</b>	Square cup w/o Tellurium - basic CE
<b>METACUP Te</b>	Square cup w Tellurium - CE, C, Si
<b>METACUP TeS</b>	Square cup w Tellurium + Sulphur
<b>METACUP-R-Te</b>	Round cup w Tellurium
<b>METACUP-R-TeS</b>	Round cup w Tellurium + Sulphur