

Molten Iron Sampling Cups



Description

Expendable sampling cups used to measure the temperatures at which thermal arrests occur in the cooling curve of solidifying molten iron.

The shell is manufactured using moulding sand and has an internal type K thermocouple protected by a Quartz™ tube, designed for fast response and accurate measurement. The base of the cup has a moulded coupling for connection to a sampling cup stand; this then feeds back to the Digicarb/14 or alternative instrumentation for analysis.

MAISC cups can be used to determine carbon equivalent liquidus (%CEL) in hypoeutectic iron and for analysis of the cooling temperature and arrest points.

MATSC cups are supplied with tellurium cement which mixes with the liquid iron and solidifies white; this allows for the additional analysis of carbon (%C) and silicone (%Si) percentage in hypo and hypereutectic iron.



Specification

Product	Molten Iron Sampling Cups
Type	K thermocouple
Temp Range	0 - 1372°C
Measurement 1	%CEL Carbon Equivalent Liquidus
Measurement 2	%C Carbon
Measurement 3	%Si Silicon
Part Number	MATSC / MAISC

Features

- Fast response
- Type K thermocouple protected by a Quartz™ tube
- Disposable after use
- Supplied with or without tellurium
- Used in analysis of temperature, %C, %Si and %CEL

Application

- Commonly used in iron foundries
- Thermal analysis of molten iron
- Continual monitoring of the cooling curve temperature.

We calibrate
sensors up to
1100°C

Visit our calibration
page to find out more



For more information visit:

sterlingsensors.co.uk



Sterling Sensors UK Ltd

Fitmec Works ∷ Hawksley Street ∷ Oldham
United Kingdom ∷ OL8 4PQ

T: +44 (0) 161 620 0410 F: +44 (0) 161 627 0507 E: sales@sterlingsensors.co.uk W: sterlingsensors.co.uk