

# IMM-ST IMMERSION SAMPLERS

## STAR

### DESCRIPTION

SYSCON Sensors Immersion Star Samplers are designed for the Iron and Steel industry to aid in the secondary refining process by obtaining quick, solid, and homogenous samples. They are ideal for taking samples from Electric Arc Furnace (EAF), Basic Oxygen Furnace (BOF), Tundish, Ladle, and other stations.

Star style samplers provide 6 separate "pins" arranged in a star shape, from which chemical composition and inclusion characteristics can be determined by spectrometric and combustion analysis of these samples. Star Samplers are available with Aluminum, Zirconium, or no deoxidizer material.

Immersion tubes are made from high density convolute wound paper for maximum strength and resilience. Samplers with immersion tubes are available in a variety of sizes. Samplers and tubes are also sold separately, allowing a single tube to be re-used with a second sampler at the opposite end.



### Ordering Information

IMM-ST-KK-TBLL	Immersion Sampler with tube Star shape KK (deoxidant) options: AL aluminum ZR zirconium NK none LL (tube length) options: 00" (cartridge only) 32", 44", 72", others on request
IMM-ST-TBLL	Immersion Star Sampler tube only LL (tube length) options: 32", 44", 72", others on request



### FEATURES

- ◆ Easy to remove sample from the tube
- ◆ Powdered / sintered metal, rust free molds
- ◆ (4) 1g and (2) ½ removable samples for oxygen and carbon tests
- ◆ Suited for automatic handling equipment
- ◆ Shell sand encased to allow time for sample gathering in the ladle or furnace
- ◆ Economically priced
- ◆ Manufactured under ISO 9001:2015 Quality Standards

### Technical Specifications

Number of Pins	4x 1g and 2x 0.5g removable pins for Spectrometer tests
Deoxidizer	<ul style="list-style-type: none"> <li>◆ Aluminum Kill (9" length)</li> <li>◆ Zirconium Kill</li> <li>◆ No kill, No deoxidizer</li> </ul>
Sampler Length	3.4" (86mm)
Cap	Steel OD: 1.55" (39mm) Height: 0.75" (19mm)
Sampling Time	3-4 Seconds
Tube Diameter	ID: 1.78" (45mm) OD: 2.2" (56mm)

### 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 Thermal Analysis System
- ◆ Single & Multi-Use Thermocouple Tips
- ◆ Sampling Cups
- ◆ Iron and Steel Samplers
- ◆ Repair, Replacement Parts, & Calibration Services