Steel Sampler



Key Features

- ISO 14284 Certified: Compliant with global steel sampling standards
- Thermal Resilience: Operates reliably at 1500–1700°C
- Single-Use Integrity: Eliminates cross-contamination between heats
- OES-Compatible Geometry: Ensures uniform spark analysis results
- Rapid Fill Rate: Achieves full sample in less than 5 seconds
- Color-Coded Identification: Simplifies operator handling and sorting

Product Overview

DKKI Steel sampler is a single-use, high-temperature probe designed for precision sampling of molten steel to produce disk-and pin-type specimens suitable for spark optical emission spectrometry (OES). Engineered to comply with ISO 14284, it enables accurate, contamination-free elemental analysis of C, S, Mn, P, Si, and other alloy constituents.

Ideal for use in primary steelmaking, secondary metallurgy, and casting operations, the sampler supports rapid, representative sample acquisition while enhancing operator safety and process efficiency.

Each unit is manufactured using high-grade refractory materials and undergoes ISO 9001:2015-certified inspection to ensure dimensional consistency and thermal reliability. Available in Round, Oval, and Double-Thickness cartridge formats, with multiple filling mechanisms (e.g., suction, gravity, pressure-assisted) per ISO 14284. Offered in Classic, Low Carbon, and Ultra-Low Carbon variants, with customizable deoxidizer/additive packages and standard paper tube lengths to suit specific melt conditions and analytical protocols.

Why DKKI

- Proven success for over three decades
- ISO 9001:2015 certified quality
- In-house testing under real operating conditions
- Free expert support and comprehensive training
- On-site consulting and troubleshooting
- Fast order processing with flexible logistics
- Standard products, customizable options
- Transparent partnerships that build trust
- Proactive customer engagement

Application Areas

- Electric Arc Furnaces (EAF)
- Basic Oxygen Furnaces (BOF)
- Induction Furnaces
- Secondary Metallurgy Units
- Continuous Casting and Foundry Operations

APPROVED SA313-01

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Monitoring & Conformity Assessment Iran
CERTIFIED
ISO 9001:2015
Certificate No. IR0190126055