Slag Sampler



Product Overview

DKKI Slag samplers are essential tools in modern steelmaking, where slag composition directly dictates operational efficiency, product quality, and profitability. Designed for use in Electric Arc Furnace (EAF), BOF, and Ladle Furnace (LF) applications, our samplers deliver fast and accurate slag analysis. This enables precise control over refining processes, extends refractory life, and ensures compliance with stringent quality standards—ultimately enhancing productivity and cost-effectiveness in your operations.

Manufactured with high-quality materials and advanced techniques, these slag samplers undergo rigorous ISO-certified inspections to ensure reliability and consistency. Available in a coin-shaped design with 12 to 24 mm thickness, they can also be used with automatic manipulators or robots to further enhance safety in the melt shop.

Key Features

- Coin-Shaped Sample Design: Uniform geometry (Ø 35 mm) ensures contamination-free, lab-ready samples for rapid XRF/ICP-OES analysis.
- Extreme Temperature Resilience (1,750°C): Engineered with high-purity alumina for unmatched durability in EAF, LF, and BOF environments.
- Slag Chemistry Adaptability: Compatible with basic ($CaO/SiO_2 > 1.5$) and acidic slags; material selection optimized for slag type.
- High-Speed Sampling & Analysis: <5-second immersion with argon quenching delivers cooled, analysis-ready samples in <5 minutes.
- Tailored Probe Configurations: Customizable lengths (up to 1.5 m) to align with furnace capacity and operational requirements.

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

- Ladle Furnace (LF)
- Electric Arc Furnace (EAF)
- BOF Refining

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Technical Specifications

Parameter	Details
Immersion Time	Less than 5 Seconds
Temperature Range	Up to 1750°C
Sample Shape	Round
Disk Thickness	12 mm to 24 mm
Disk Diameter	35 mm
Filling Methods	Immersion
Sample Chamber Material	Steel cartridge contained by sintered sand
Chamber Entry Material	Quartz tube positioned into the sintered mold
Filling Direction	Bottom Entry
Immersion Angle	Vertical
Immersion Depth	Varies based on the slag depth
Paper Tube Length	Up to 1500 mm
Compliance and Certifications	ISO 9001:2015 ISO 14284 ASTM E1806 - 09
Storage Conditions	Dry environment avoid direct sunlight and corrosive fumes
Shelf Life	2 years under proper storage conditions

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