

Cylindrical High-Performance Electrode

These high-performance electrodes are designed for specialized industrial applications. They are packaged in wooden crates to ensure safe transport and maintain integrity during international shipping.



Product Overview

High-Performance Cylindrical Electrodes

These cylindrical high-performance electrodes are engineered for demanding industrial applications requiring superior thermal and mechanical stability. Designed with a focus on durability and efficient conductivity, they offer consistent performance across a wide range of operating temperatures. The product is optimized for safe international transport and reliable integration into high-temperature processes.

Physical Properties

Bulk Density

Component	Density (g/cm ³)
Electrode	1.62-1.73
Nippeie	1.74-1.80

Nominal Diameter Range: 1250-1700mm

Mechanical Properties

Bending Strength

Component	Strength (Mpa)
Electrode	9.0-15.0
Nippeie	16.0-24.0

Young's Modulus

Component	Modulus (Gpa)
Electrode	9.0-14.0
Nippeie	12.0-20.0

Electrical & Thermal Properties

Electrical Resistivity

Component	Resistivity ($\mu\Omega$)
Electrode	5.8 ^{7.0}
Nippeie	4.0 ^{5.5}

Coefficient of Thermal Expansion (100-600)

Component	Value (x 10 ⁻⁶ /°C)
Electrode	1.6 ^{2.0}
Nippeie	1.0 ^{1.8}

Ash Content 0.3 %

Operational Guidelines

Suggested Operation Current

Diameter (mm)	Current Range (A)
200	5500 ⁹⁰⁰⁰
250	8000 ¹³⁰⁰⁰
300	13000 ¹⁷⁴⁰⁰
350	17400 ²⁴⁰⁰⁰
400	21000 ³¹⁰⁰⁰
450	25000 ⁴⁰⁰⁰⁰
500	30000+