Graphite Electrode for Electric Arc Furnaces

This high-quality regular power (RP) graphite electrode is designed for electric arc furnaces. The electrode provides excellent electrical conductivity, high mechanical strength, and thermal shock resistance for steelmaking and other metallurgical processes.

Product Overview

High-Performance Graphite Electrodes

These graphite electrodes are engineered for optimal performance in electric arc furnaces and metallurgical processes, including steel-making, refining, and phosphorous chemical production. They feature exceptional electrical and thermal conductivity, high-temperature resistance, and superior durability against wear and corrosion. Built for efficiency, these electrodes help minimize consumption and extend service life in demanding industrial environments.

Key Applications

Suitable Industries	Steel-making, Refining, Phosphorous Chemicals, Metal Silicon

Physical and Electrical Properties

Core Performance Metrics

Property	Electrode Value	Nipple Value
Electrical Resistivity (¹㎀).	7.0–8.8	4.8–6.4
Bending Strength (Mpa)	6.8–12.0	16.0–22.0
Young's Modulus (Gpa)	7.0–12.0	10.0–20.0
Bulk Density (g/cm²)	1.55–1.65	1.71–1.76
CET (x 10-6/)	2.0–2.6	1.8–2.4

Diameter Range	¦250-¦700
Maximum Ash Content	0.5 %

Product Features

Available Grades

RP (Regular Power) • HP (High Power) • UHP (Ultra High Power)