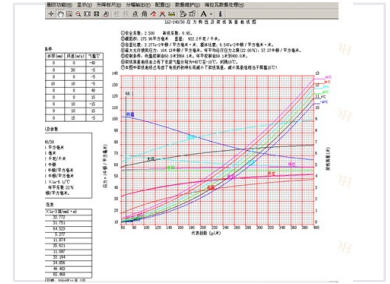


Cement Pole Load Capacity Chart

This chart illustrates the load capacity and stress analysis of a cement pole under various temperature conditions. It specifies key parameters such as safety factors, material properties, and allowable stress levels.



Product Overview

High-Precision Cement Pole Engineering Data

This comprehensive load capacity and stress analysis chart is designed for the 16J-240/30 cement pole, providing essential technical data for structural integrity and safety. It details critical performance metrics including safety factors, resistance coefficients, and stress-to-displacement relationships under varying temperature conditions. This data is vital for engineers and utility planners to ensure reliable infrastructure performance in diverse environmental settings.

Core Technical Metrics

Key Performance Metrics

2.5

Safety Factor

0.95

Resistance Coefficient

104.13 N/mm²

Max Allowable Stress

Physical Properties

Cross-Sectional Area	215.96 mm ²
Unit Weight	922.2 kg/km

Material Composition

Material Stress Ratios

- White Cement Ratio: 3.277e-2 N/mm²
- Ash Ratio: 6.547e-2 N/mm²

Operational Conditions

Average Operating Stress	57.27 N/mm ² (122.00% of standard)
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Environmental Specifications

Control Conditions	Low-Temperature Control, Initial Electrical Stress Considered, Annual Avg Temp 1400.0°C
Operating Temperature Range	0°C to -10°C

Stress Analysis

Stress vs. Displacement Analysis

Temperature Curve	Condition
13°C	Active Stress Curve
12°C	Active Stress Curve
11°C	Active Stress Curve
10°C	Active Stress Curve