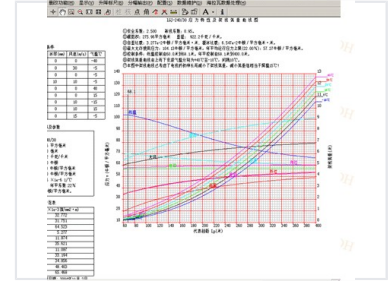


# Stress-Strain Analysis Software

This software analyzes stress-strain characteristics and related technical parameters. Key features include safety factor calculation, weight analysis, and stress evaluation under various conditions such as temperature and wind speed.



## Product Overview

### Advanced Stress-Strain Analysis

This specialized software provides precise analytical tools for evaluating stress-strain characteristics under complex environmental conditions, including temperature fluctuations and wind load. It empowers engineers to perform rigorous safety factor calculations and material property assessments with high accuracy. The system specifically excels in modeling electrical initial tension reduction, ensuring reliability in cold environments down to -15°C.

## Technical Metrics

### Performance Parameters

<b>2.5</b> Safety Factor	<b>204.13 N/mm<sup>2</sup></b> Max Allowable Stress	<b>922.2 kg/km</b> Unit Weight	<b>215.96 mm<sup>2</sup></b> Cross-sectional Area
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Annual Average Operating Stress	57.274 N/mm <sup>2</sup>
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## Operational Conditions

Operating Environment	Low-temp operation (-15°C), Wind load analysis, Temperature range 0°C to 13°C
Primary Control Condition	Low-temperature control

## Software Capabilities

### Core Functionalities

- Safety factor calculation
- Weight analysis
- Stress evaluation under varying conditions
- Material properties analysis
- Electrical initial tension reduction modeling
- Graphical data output