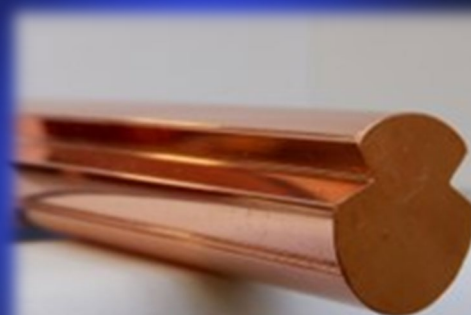


New Contact Wire GT-SNNS170

Longer life and improved ease of management and maintenance



Outline

•In order to respond to the increasing speed and density of railways, we have developed a tin-indium-filled copper alloy. With tin (Sn) and indium (In) added to the copper, the new contact wire has higher strength and conductivity than existing tin-filled contact wires. fine structure(Figure 1) also gives it excellent wear resistance.

•In addition, an added groove on the side of the contact wire at the wear management position, enables a visual check of the wear status of the trolley wire, reducing maintenance man-hours.

Applications

OHE for High-speed Railway Systems

Features

- The product has a proof tensile load at least 20% higher than pure copper contact wire, while keeping 80% or more of the electric conductivity.
- The structure of GT-SNNS170 is excellent for the visibility of wear status because of grooves created at the wear limit.(Figure 2)



Figure1
Cross-sectional structure

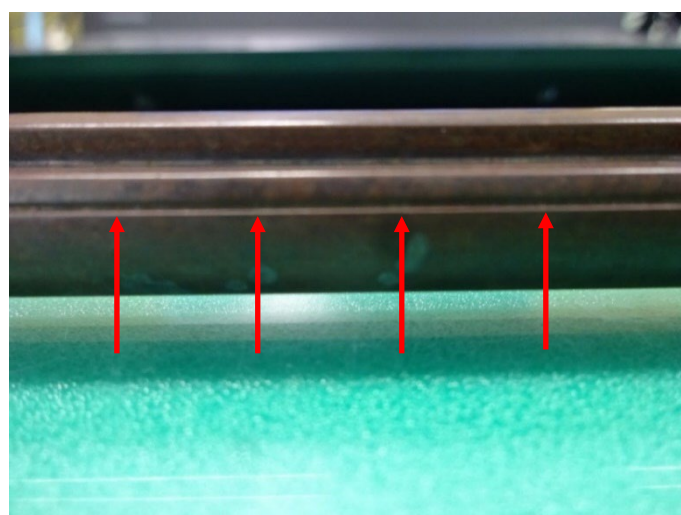


Figure2
Visibility of wear detection grooves after exposure testing