

Development of a Contact Strip for Shinkansen with Improved Lubricating Properties

Yuki MIYAHIRA Hiroshi TSUCHIYA Yoshitaka KUBOTA

In order to extend the life of the contact strip, a new contact strip was manufactured using MnS pre-alloyed free cutting steel powder. Since wear of N5C-5 was reduced by more than 30% as compared with the present contact strip as a result of an experiment using with test equipment, after installing the new contact strip in a Shinkansen car a running test was carried out. As a result of the running test, the slider wear was reduced by 3% as compared with the present article and the contact wire wear was almost the same as that observed when the present article was used. Accordingly it was put in practical use.