

Rail Repair Method by Thermite Head Repair Welding

Hajime ITO Kazuyuki UMENAI Yoshihiro TERASHITA
Mitumasa TATSUMI Ryu-ichi YAMAMOTO

The thermite head repair welding is able to repair rail head defects, such as squats, and is conducted following almost the same procedure as the conventional thermite welding. Some examinations were conducted in order to apply the thermite head repair welding to JIS rails in this study. In the examination process, we developed a new preheating condition and a new pouring system for achieving the sufficient amount and uniformity in shape of the weld penetration. As the result of the evaluation tests, it was identified that the thermite head repair weld had adequate performance for practical use.