

Amtec Welding Products

Case Study #1 - Rail Road Track Repair



#1. A manganese crossover on a railroad that has fatigued under wear and tear, and has actually broken away from the main heavy section.



#2. Amtec #8 Airless Gouging Rod is used to remove the unwanted, damaged manganese steel, prior to grinding and re-welding.



#3. The ground area after the damaged manganese piece has been removed by gouging.



#4. Using Amtec Protecta as a dam to hold water in the welding area to keep the manganese steel crossover from overheating during the welding process.



#5. Cleaning the slag away as the welder prepares to build up the manganese crossover.

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#6. Building up the railroad crossover using Amtec 207CNMG Electrode.



7. Amtec Protecta keeps the water in place to keep the manganese cool as the welding is done using Amtec 207 CNMG.



#8. The crossover has been welded successfully, and is ready for grinding and finishing.



#9. The welded area is ground finished to shape and size.



#10. The crossover is completely finished and ready for railroad traffic again. The job took less than 2 hours of actual welding time, which included the grinding and preparation.