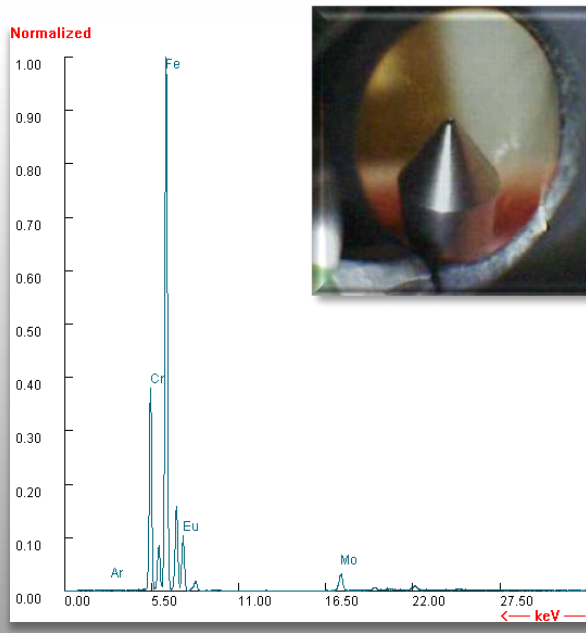
A Reliable Material Identification

In 2009 Joining Technologies, Inc. developed a reliable material identification (RMI) program to meet the level of confidence demanded in the joining and welding industry. As a leader in quality assurance this comprehensive program supports our quality objectives to deliver on-time, defect free materials. The RMI program can provide a simple, worry-free solution to ensure finished welds, control lot traceability and validate filler material and dilution.



The Problem

Material Test Reports and Certificates of Conformance have been the dependable and practiced method for tracking of received components. During routine fabrication and shipment it can become difficult to determine if mixing of specified materials has occurred without time-consuming and expensive verification. This unintentional mixing of materials can affect the behavior and overall quality of the welding process.

The Answer

The RMI program offers a quick, low priced analysis that brings the reliability of a metallurgical laboratory to the shop floor. Utilizing a non-destructive, portable x-ray fluorescence (XRF) unit elemental analysis is compared to commonly used material grades stored in a reference library. It is the ideal instrument for light element detection including magnesium, aluminum, sulfur, silicon and phosphorus. XRF analysis has even served as a trusted pass/fail test method.