

# HOW TO ASSESS THE WELDABILITY OF MATERIALS

## SOLIDIFICATION CRACKING

Low-alloy steels, austenitic stainless steel, and aluminum are prone to solidification cracking. A circular patch test can determine the susceptibility of low-alloy steels and aluminum. This test involves positioning the test material at a constant distance from the test patch with a large restraining plate and welding between the patch and plate around the circumference of the patch.

## HYDROGEN CRACKING

There are a number of testing methods available to test the susceptibility of a material to hydrogen cracking. For example, Tekken or Y-groove tests are suitable for evaluating the heat-affected zone (HAZ) for hydrogen cracking, while controlled thermal severity tests are suitable for restrained filler weld testing applications.



## LAMELLAR TEARING

Testing for susceptibility for lamellar tearing involves evaluating the inclusion content and type in the parent plate.

## REHEAT CRACKING

While there are no standard testing processes for determining the susceptibility of a material to reheat cracking, metallurgical professionals have proposed several potential methods (e.g., weld metal and HAZ tests).

# Weldability Of Materials

**Emilie Sanchez**



## **Weldability Of Materials:**

## **Weldability Of Materials** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Weldability Of Materials**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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