

# 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

**L Reisser**



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