

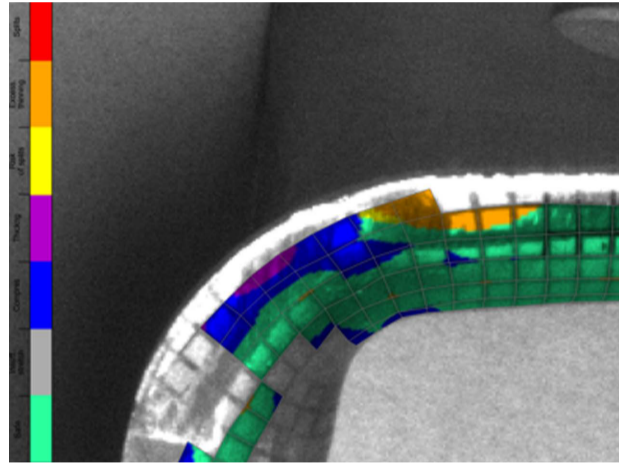
Cracking

Learn how our Material Support & Solutions team solved this customer material issue.



THE PROBLEM

A Customer reported cracking at the stretched flange of a part, which resulted in the material being rejected and more suspect material being held.



THE ANALYSIS

Our materials support team reviewed the steel's microstructure. The microstructure was good, so the cause of the cracking was determined to be the die settings. An AutoGrid analysis was performed to map the thinning areas and stress points on the part, revealing the locations of problematic material flow.



THE SOLUTION

Our Metallurgists reviewed the analysis with the customer. The AutoGrid results guided die adjustments to the key areas, eliminating the cracking issue and allowing all materials to be processed.

— THE ACTION

When your material is cracking or thinning during forming and the cause cannot quickly be determined, contact the Material Support & Solutions team at Worthington.