

# Approving Alternate Grade

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



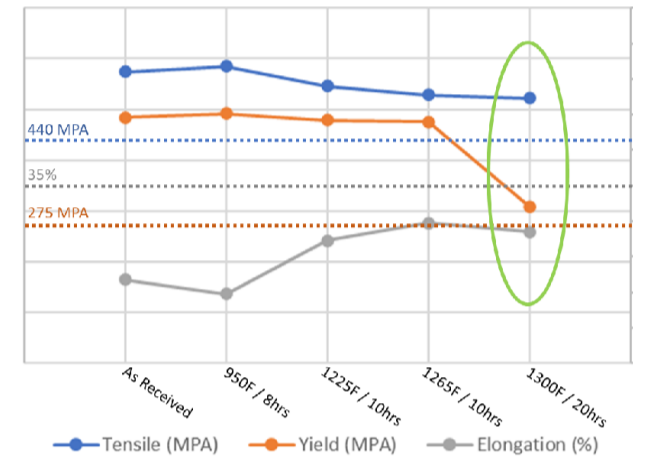
## THE PROBLEM

A customer was experiencing a mill supply shortage for a hot roll steel product. They substituted an HSLA grade purchased on the spot market, slit it, and sold it to their customer – a fine blanker. The substitute material could not produce the fine blanker’s brake flange part, as it was higher strength than the typical material.



## THE ANALYSIS

The Worthington Steel materials support team obtained samples of the HSLA product and tested the baseline properties. They used salt pot anneal simulations to determine what anneal cycle would make the HSLA the right strength for fine blanking.



## THE SOLUTION

The proper anneal cycle was identified. The fine blanker produced their part without issue, as the HSLA had been annealed to the strength of the original hot roll material. Finding a solution to make the HSLA a suitable substitution allowed our customer to keep the business.

## — THE ACTION

When you have material that is not working for you, contact the Material Support & Solution team at Worthington.