



Shear-break Issue

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



THE PROBLEM

The customer was experiencing shear break stamping issues on the holes of their chain link.



THE ANALYSIS

The Materials Support team analyzed the steel and discovered that there was a variation in hardness between the steel on the outside of coil, and the steel in the center of coil. Testing revealed that this hardness variation was due to an inconsistent microstructure, which occurs with uneven cooling of the coil.



THE SOLUTION

The customer's stamping problem was alleviated by implementing adjustments to the cooling process at the hot mill. This prevented the hardness variation responsible for the stamping issue.

— THE ACTION

When you want to eliminate time intensive tooling adjustments to your chain stamped steel, contact the Material s Support & Solution team at Worthington.