

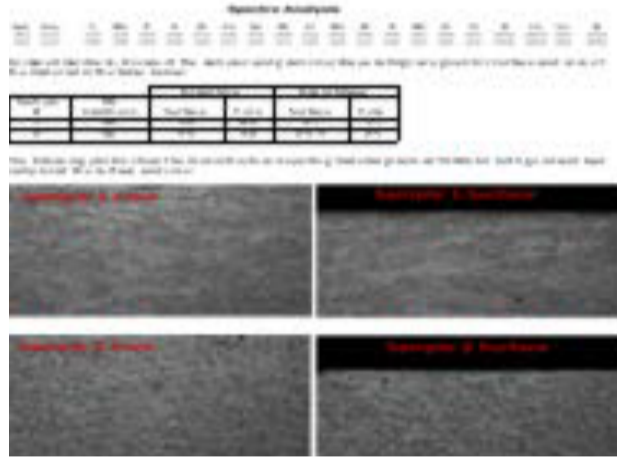
Refining Material Grain Size

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



THE PROBLEM

A customer expressed concern regarding an orange peel appearance on some of their support brackets. To compensate for this issue, the customer was paying for their formed parts to be buffed and polished to make their surface suitable for either chrome plating or high gloss black paint application.



THE ANALYSIS

Worthington performed a microscopic examination of the material grain structure of the steel, and was able to indicate stark differences between the steel that produced orange peel and the steel that didn't. Comparing chemistry and hardness results with data from historical shipments indicated Worthington was not the supplier of the steel producing orange peel.



THE SOLUTION

Our team determined that the cause of the orange peel was an overly large grain size. Control of the grain size, shape, and material hardness is paramount in limiting the orange peel effect. At Worthington, we go to great lengths in processing and analysis to ensure our steel has consistent properties for reliable outcomes.

— THE ACTION

When you have material surface concerns, contact the Material Support & Solution team at Worthington.