



# WORTHINGTON INDUSTRIES

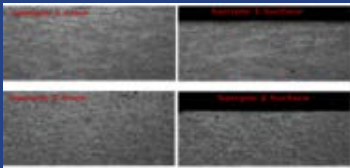
*Learn how our Material Support & Solutions team solved this customer material issue:*

## Refining Material Grain Size



### THE PROBLEM:

A customer expressed concern regarding an orange peel appearance on formed 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 grains and was able to indicate stark differences between unacceptable and acceptable material. Comparing chemistry and hardness results with data from historical shipments indicated Worthington did not supply this unacceptable material.



### THE SOLUTION:

Control of the grain size, shape, and material hardness is paramount in limiting the orange peel effect. Our team determined that the grain size on the support brackets was too large, thus causing orange peel. 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.*

**CALL US AT 1-800-944-2255**

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