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2019 Cost Comparison with NIST¹ Specimens

<u>NIST Verification Specimens</u>		<u>CCI Verification Specimens</u>		<u>% Difference in Price</u>
Low Energy ²	\$651.00	Low Energy	\$575.00	12.4 %
High Energy ²	\$651.00	High Energy	\$575.00	12.4 %
Super-High Energy	N/A	Super-High Energy	N/A	N/A

Cost Saving Procedures

After testing the verification specimens, you may report the results to CCI by email along with digital pictures of the brinelling marks on the paired broken specimens. Please use the 2018 Fractured Specimen Digital Picture Guide for instructions. If the digital pictures are not clear enough, you will be notified to send replacement pictures. If the replacement pictures are not clear enough, you may be required to return the broken specimens to complete the evaluation of your machine.

In the past, when you purchased specimens from CCI the customs value was determined to be the purchase price of the specimens. In order to provide a more accurate customs value we have separated the manufacturing cost of the specimens from the verification and documentation fee of \$300.00 USD. Therefore, the customs value of the low & high energy specimens is \$275.00 USD per set. The customs value for super-high energy level specimens (when available) is \$275.00 USD per set.

The new digital picture procedure and the lower, more accurate customs value should result in a cost savings of specimens, customs fees, and/or taxes.

Super-high energy specimens are commercially unavailable from CCI and NIST at this time. Therefore, your machine will be verified from the lower useable limit to the maximum range or capacity using only low and high energy verification specimens. ASTM E23, Paragraph A2.4.4. provides authorization for this change.

Super-high energy specimens are not commercially available from CCI or NIST. ASTM E23 paragraph A2.4.4 states: **“Only verification specimens that are within the usable range of the impact machine shall be tested. To verify the machine over its full usable range, test the lowest and highest energy levels of verification specimens commercially available that are within the machine’s usable range. If the ratio of the highest to lowest certified values is greater than four, testing of a third set of intermediate specimens is required (if the specimens are commercially available).”** Because super-high energy specimens are not commercially available, CCI is authorized by ASTM E23 to verify a Charpy machine from the lower useable limit to 80% of machine capacity.

¹National Institute of Standards and Technology

²Prices found on official NIST website