

# **C&I Testing Laboratories, Inc.**

**1150 Katy Fort Bend Rd,**

**Katy, TX 77493**



## **General Price List**

**Effective October 13, 2020**

**Prices are based on testing to the following specifications:**

ASTM, API, AWS and ASME

**Note:** Additional charges may incur if extra specimen preparation is required (i.g. high hardness materials, threaded tensile, small specimens, etc.). Charges for such preparation will be added to prices listed.

**TENSILE TESTING** *includes yield, elongation & reduction of area.*

### **Round Specimens**

Carbon Steel – Low Alloys – Aluminum	\$55.00
Stainless Steel – Duplexes – Brass	\$65.00
Nickel Alloys – Beryllium Copper – Tool Steels – Titanium	\$110.00

### **Reduced Section Tensiles**

#### **Under 1" Thick**

Carbon Steel – Low Alloys – Aluminum	\$65.00
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<b>Stainless Steel – Duplexes – Brass</b>	<b>\$75.00</b>
<b>Nickel Alloys – Beryllium Copper – Tool Steels – Titanium</b>	<b>\$100.00</b>

### **Over 1" Thick**

<b>Carbon Steel – Low Alloys – Aluminum</b>	<b>\$75.00</b>
<b>Stainless Steel – Duplexes – Brass</b>	<b>\$85.00</b>
<b>Nickel Alloys – Beryllium Copper – Tool Steels – Titanium</b>	<b>\$125.00</b>

### **Fastener Proof Load & Full Size Wedge Test**

ASTM F606

Proof Load or Wedge Test 0 - .750"	\$40.00
Proof Load or Wedge Test .751" - 1.250"	\$55.00
Proof Load or Wedge Test 1.251" and over	\$75.00

## **CHARPY IMPACT TESTING**

### **Carbon Steel – Low Alloys – Aluminum Full Size:**

Ambient to -100°F	\$90.00
-101°F to -325°F	\$110.00

### **Sub Size (thickness less than .394"):**

Ambient to -100°F	\$100.00
-101°F to -325°F	\$120.00

### **Stainless Steel – Duplexes – Brass Full Size**

Ambient to -100°F	\$120.00
-101°F to -325°F	\$135.00

### **Sub Size (thickness less than .394"):**

Ambient to -100°F	\$130.00
-101°F to -325°F	\$150.00

### **Nickel Alloys – Beryllium Copper – Tool Steels – Titanium Full Size:**

Ambient to -100°F	\$150.00
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-101°F to -325°F	\$170.00
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**Sub Size (thickness less than .394"):**

Ambient to -100°F	\$170.00
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-101°F to -325°F	\$195.00
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## **Bend Testing**

Carbon Steel	\$55.00
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Stainless-Duplex-Brass	\$65.00
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Nickel-Cobalt Alloys	\$75.00
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## **METALLOGRAPHY**

Decarburization	\$100.00
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Metallurgical Photos	\$25.00
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Macro Etch with Photo	45.00
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Grain Size with Photo	\$110.00
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## **HARDNESS TESTING**

Brinell or Rockwell (minimum)	\$45.00
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Brinell or Rockwell (when included with mechanical testing)	\$15.00
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*Vickers Hardness (up to 10 points)	\$125.00
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*Case Depth – Vickers or Knoop (up to 10 points)	\$125.00
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4-Quad Hardness	\$125.00
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Hardness Survey Additional Points	\$5.00/each
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\*Note: Hardness survey may require additional points.

## **HEAT TREATMENT Material Qualification\***

Normalize or Austenitize & Quench First Hour	\$40.00
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Additional Hours	\$25.00/hour
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Temper First Hour	\$35.00
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Additional Hours	\$25.00/hour
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Annealing	Price Upon Request
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Heat Treat Charts (upon request)	\$25.00
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## **Chemical analysis\* :**

Carbon, low alloy(no preparation required) 17 elements	\$75.00
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reported ( C, Mn, P, S, Si, Ni, Mo, Cr, Cu, Al, V, Ti, Nb, B, Co, W, Sn)

Stainless steels (no preparation required) 17 elements	\$95.00
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reported ( C, Mn, P, S, Si, Ni, Mo, Cr, Cu, Al, V, Ti, Nb, B, Co, W, Sn)

<b>additional elements by OES each</b>	\$5.00
<b>aluminum, nickel , copper and cobalt alloys</b> ( elements reported as required per specification where possible)	\$105.00

### **3rd Party Witness Charge**

(Additional charges may apply based on schedule coordinating and testing time.) \$35.00

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*\*Services are outsourced to a third-party.*