

TESTS OF METALS AND METALLIC STRUCTURES

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January 6, 1926.

The following fees have been approved for mechanical tests. The specimens must be machined ready to place in the testing machine. Under exceptional circumstances, the samples may be machined at the Bureau of Standards but if this is done, an additional charge will be made.

The fees for tests which are not listed here will be computed using the hourly rates.

	Fee per Specimen
<u>Tensile test - total load not over 200,000 pounds:</u>	
(a) Determination of yield point, ultimate strength, percentage of elongation and reduction of area...	\$ 5.00
(b) Determination of the proportional limit and modulus of elasticity by extensometer readings, and the ultimate strength, percentage of elongation and reduction of area.....	10.00
(c) Determination of elastic limit by extensometer readings for permanent set.....	15.00
<u>Compressive test - total load not over 200,000 pounds:</u>	
(d) Determination of load for definite deformation, and the ultimate strength.....	5.00
(e) Deformation readings. Determination of the proportional limit and modulus of elasticity, by deformation readings, and the ultimate strength.....	10.00
<u>(f) Transverse test - total load not over 100,000 pounds:</u>	
Determination of proportional limit and modulus of elasticity by deflection readings, and the resilience and modulus of rupture.....	10.00
(g) <u>Cold-bend test.</u> Reporting angle at which fracture began.	2.50
(h) <u>Torsional test.</u> Determination of the proportional limit and shearing modulus of elasticity, by deformation readings, and the modulus of rupture.....	20.00
(i) <u>Test for hardness.</u> Determination by Brinell or Shore apparatus of the hardness numerals. Three separate tests are made on each specimen submitted.....	2.50
(j) <u>Erichsen test for ductility.</u> Determination of "Erichsen Value".....	2.50

DEPARTMENT OF CHEMISTRY

REPORT OF THE COMMITTEE ON THE PROGRESS OF CHEMISTRY IN THE UNITED STATES

1913-1914

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1915-1916

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- (k) Test for resistance to impact. Reporting energy absorbed in producing rupture..... \$ 2.50
- (l) Test for resistance to fatigue. On account of the uncertain number of repetitions of stress required to cause failure, fatigue tests are charged for at an hourly machine operation rate..... \$5.00 per hour
- (m) Calibration of brick testing machine..... 5.00
- (n) Calibration of "calibrating ring" for testing Erinell machines..... 5.00
- (o) Special tests. The charge for unusual tests is an hourly rate for the use of the testing machine.

For testing machines having a load capacity greater than 100,000 lb. - \$20.00 per hour. For testing machines having a load capacity of 100,000 lb. or less - \$10.00 per hour. These charges include all the assistance needed to conduct the test and to prepare the report.

The charge for tests made outside the buildings of the Bureau of Standards is \$10.00 per hour for members of the staff of the Associate grade (Associate Engineer-Physicist, etc.) and higher grades. For members in lower grades the charge is \$5.00 per hour.

- (z) For special tests (not included in above) a reasonable fee will be charged dependent upon the nature of the test.

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FEE SCHEDULE NO. 204
FOR
TESTS OF FIBER ROPE AND WIRE ROPE

LC 189

Fee per
Specimen

Tensile test on Fiber Rope:

(a) Of diameters up to and including 1 inch.....	\$ 5.00
(b) Of diameters over 1 inch and up to and including 2 inches	7.00
(c) Of diameters over 2 inches and up to and including 3 inches.....	10.00
(d) Of diameters over 3 inches and up to and including 3 1/2 inches.....	13.00
(e) Of diameters over 3 1/2 inches and up to and including 4 inches.....	15.00

Splicing Fiber Rope:

(f) Of diameters up to and including 1 inch.....	1.00
(g) Of diameters over 1 inch and up to and including 2 inches	2.75
(h) Of diameters over 2 inches and up to and including 3 in- ches.....	5.75
(i) Of diameters over 3 inches and up to and including 3 1/2 inches.....	7.75
(j) Of diameters over 3 1/2 inches and up to and including 4 inches.....	10.00

Tensile Test on Wire Rope:

(k) Of diameters up to and including 1 inch.....	10.00
(l) Of diameters over 1 inch and up to and including 1 1/2 inches.....	13.00
(m) Of diameters over 1 1/2 inches and up to and including 2 inches.....	18.00
(n) Of diameters over 2 inches and up to and including 2 1/2 inches.....	23.00
(o) Of diameters over 2 1/2 inches and up to and including 3 inches.....	30.00
(p) Of diameters over 3 inches.....	37.00

Socketing Wire Rope:

(q) Of diameters up to and including 1 inch.....	20.00
(r) Of diameters over 1 inch and up to and including 1 1/2 inches.....	25.00
(s) Of diameters over 1 1/2 inches and up to and including 2 inches.....	31.00
(t) Of diameters over 2 inches and up to and including 2 1/2 inches.....	40.00
(u) Of diameters over 2 1/2 inches and up to and including 3 inches.....	50.00
(v) Of diameters over 3 inches.....	62.00

Date	Particulars	Debit	Credit	Balance
1914	Jan 1			
	By Balance		100.00	100.00
	Jan 5	50.00		50.00
	Jan 10		20.00	70.00
	Jan 15	30.00		40.00
	Jan 20		10.00	50.00
	Jan 25	20.00		30.00
	Jan 30		15.00	45.00
	Feb 5	10.00		35.00
	Feb 10		5.00	40.00
	Feb 15	15.00		25.00
	Feb 20		10.00	35.00
	Feb 25	5.00		30.00
	Feb 28		5.00	35.00
	Mar 1			35.00
	Mar 5	10.00		25.00
	Mar 10		15.00	40.00
	Mar 15	5.00		35.00
	Mar 20		10.00	45.00
	Mar 25	15.00		30.00
	Mar 30		5.00	35.00
	Apr 5	10.00		25.00
	Apr 10		15.00	40.00
	Apr 15	5.00		35.00
	Apr 20		10.00	45.00
	Apr 25	15.00		30.00
	Apr 30		5.00	35.00
	May 5	10.00		25.00
	May 10		15.00	40.00
	May 15	5.00		35.00
	May 20		10.00	45.00
	May 25	15.00		30.00
	May 30		5.00	35.00
	Jun 5	10.00		25.00
	Jun 10		15.00	40.00
	Jun 15	5.00		35.00
	Jun 20		10.00	45.00
	Jun 25	15.00		30.00
	Jun 30		5.00	35.00
	Jul 5	10.00		25.00
	Jul 10		15.00	40.00
	Jul 15	5.00		35.00
	Jul 20		10.00	45.00
	Jul 25	15.00		30.00
	Jul 30		5.00	35.00
	Aug 5	10.00		25.00
	Aug 10		15.00	40.00
	Aug 15	5.00		35.00
	Aug 20		10.00	45.00
	Aug 25	15.00		30.00
	Aug 30		5.00	35.00
	Sep 5	10.00		25.00
	Sep 10		15.00	40.00
	Sep 15	5.00		35.00
	Sep 20		10.00	45.00
	Sep 25	15.00		30.00
	Sep 30		5.00	35.00
	Oct 5	10.00		25.00
	Oct 10		15.00	40.00
	Oct 15	5.00		35.00
	Oct 20		10.00	45.00
	Oct 25	15.00		30.00
	Oct 30		5.00	35.00
	Nov 5	10.00		25.00
	Nov 10		15.00	40.00
	Nov 15	5.00		35.00
	Nov 20		10.00	45.00
	Nov 25	15.00		30.00
	Nov 30		5.00	35.00
	Dec 5	10.00		25.00
	Dec 10		15.00	40.00
	Dec 15	5.00		35.00
	Dec 20		10.00	45.00
	Dec 25	15.00		30.00
	Dec 30		5.00	35.00
	Total	1000.00	1000.00	