



## LSW INDUSTRIAL WIRE

### Overview

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Liberty Steel & Wire (LSW) is one of the largest manufacturers of industrial wire in the U.S. We produce custom-drawn industrial wire in a variety of gauges, finishes and packages.

For over 125 years, LSW has been a leader in the steel industry. Located in Peoria, Illinois, our facility is one of the largest wire and rod mills in the US, producing 700,000 tons of steel each year. A major recycler, much of Liberty's steel is manufactured from reprocessed steel. The steel is melted, purified, refined and poured on site. The fully integrated process enables us to produce the finest steel possible and then process it to match even the most stringent customer specifications. As a result, our internal standards routinely exceed AISI and ASTM standards. And, since our products are 100% American-made, LSW steel is Buy America Compliant.

### Capabilities

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Our extensive wire drawing capabilities make LSW a leader in the wire industry. In fact, LSW has 22 different drawing machines available to meet customers' needs. LSW has seen an increased demand for high quality, American-made steel products. In response, we recently added a state-of-the-art wire drawing machine to our manufacturing line-up. The Large Diameter Down Coiler Drawing Machine provides expanded capability in both sizes and finishing options. The new technology significantly increases the volume of coil LSW can produce each day. It also protects the finished wire from flaws and damage during production and packaging.

The Large Diameter Down Coiler Drawing Machine capabilities include:

- Capable of drawing up to .625" diameter
- Finished packaging from 1,500 to 4,000 lbs. / 31" and 36" block options
- 16,000 lbs. upender vertical coil payoff system eliminates defects associated with horizontal floor payoff methods
- Poly-lined rod contact points protect surfaces from gouge or scratch damage
- Applies dry or pasted lubrication
- Double water-cooled die shoes provide optimum cooling, eliminating die wear and surface defects
- Flexibility to achieve customer-specified coil size and helix characteristics
- Uniformed tangle-free packages
- Hard Drawn Mechanical Brite (HDMB)







# LIBERTY

STEEL & WIRE

## Applications

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LSW products have the distinction of being 100% made in America. We supply steel for original equipment manufacturer customers as well as those requiring Buy America Compliant materials. Our industrial wire is used by customers in the production of a broad range of finished goods, including:

- Nails
- Coat Hangers
- Barbecue Grills
- Air Conditioners
- Tools Containers
- Refrigerators and Other Appliances

## Customer Care

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Located in the heart of the US, LSW is strategically positioned to ship by truck, rail or barge. This advantage means we can reach our customers by the most time and cost efficient mode of transportation, regardless of destination. Our capabilities enable LSW to produce the finest American-made steel possible, and then process it to match the most stringent customer specifications. With increased productivity and consistent, reliable quality, LSW is sure to meet your needs.

## Contact Us

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For additional information about Liberty Steel & Wire or to request a quote, call us at 309.697.7607.







## Industrial Wire Charts

Size Ranges (lbs.)			
Wire Type	Carbon Range	Typical 2,000 lbs. Packaging	Typical 4,000 lbs. Packaging
Plating Quality	1005 - 1045	.062 - .500	.250 - .625
Brite Basic	1005 - 1045	.062 - .500	.250 - .625
HDMB (ASTM 227 - Class 1 & 2)	1050 - 1085 < 1060	.070 - .192 —	— .250 - .550
Black/Brite Annealed	1005 - 1038	.062 - .500	—

Dependant on size, standard carrier options in 1 and 2 ton packages but can be reviewed upon request.

Galvanized Tensile Strength			
Galvanized at Size* (Regular/Commercial) (Type 1)	1005 - 1030	— .062 - .312 .062 - .148 .151> Type 1 upon inquiry	— — — —
Galvanized at Size** (Type 3)	1005 - 1065	.062 - .192	—

\*Additional chemistry option upon inquiry.  
\*\*Over .135 with 1038 and above, upon review

Galvanized Tensile Strength			
Wire Size, in (mm)	Soft Temper (Max)	Medium Temper	Hard Temper
0.062 to under 0.080 (1.57 to under 2.03)	75 KSI (515 MPa)	70 - 100 KSI (483 - 690 MPa)	90 - 120 KSI (620 - 825 MPa)
0.080 to under 0.106 (2.03 to under 2.69)	75 KSI (515 MPa)	70 - 95 KSI (483 - 655 MPa)	85 - 115 KSI (585 - 795 MPa)
0.106 to 0.176 (2.69 to under 4.47, incl.)	70 KSI (483 MPa)	65 - 90 KSI (448 - 620 MPa)	80 - 110 KSI (550 - 760 MPa)
Over 0.176 (4.47)	70 KSI (483 MPa)	60 - 85 KSI (414 - 585 MPa)	75 - 105 KSI (55 - 720 MPa)

ISO 9001:2000 certified  
Produced in accordance with  
applicable ASTM standards.

### Wire Finishes

Plating Quality • Clean Brite Industrial Quality • Lime Brite • Borax Coated  
Galvanized • Brite Annealed • Black Annealed • Borax Substitute (New)  
Zinc Phosphate (New)