

## Aluminum Coated Steel Chain Link Fence Fabric

ASTM A 491, Federal specification RR-F-191 Type II, AASHTO M-181 Type II

### PRODUCT NAME

Aluminum Coated Steel Chain Link Fence Fabric

### 2. MANUFACTURER

Southwestern Wire, Inc.  
3505 N. Interstate Dr.  
Norman, OK 73070  
1-800-348-9473 1-405-447-6900  
FAX: 405-447-2830  
Email: [Sales@southwesternwire.com](mailto:Sales@southwesternwire.com)  
URL: <http://www.southwesternwire.com>

### 3. PRODUCT DESCRIPTION

#### Basic Use:

Aluminum Coated (aluminized) steel chain link fence fabric for commercial, industrial and institutional applications. Aluminized fabric is contained in various government specifications for use in prison, road, dock, airport, housing, forestry, and military use.

#### Composition and Materials:

Aluminized steel chain link fence fabric is produced by cold-drawing good commercial grade steel rod into wire of the appropriate diameter. The steel rod from which the wire is drawn shall be produced by the open hearth, electric furnace or basic oxygen process.

The coating is produced by passing the cleaned wire through a molten bath of aluminum metal. Aluminum metal pigs and ingots used to produce the coating shall have no more than the following maximum levels of impurities:

Copper – 0.10% maximum Cu  
Iron – 0.50% maximum Fe

#### Standards:

ASTM A 491 Aluminum-Coated Steel Chain Link Fence Fabric  
ASTM F567 Installation of Chain Link Fence

Southwestern Wire, Inc. 1-800-348-9473

ASTM A 817 Metallic-Coated Wire For Use in Chain Link Fence  
Federal specification RR-F-191K/1D Type II, Fencing, Wire and Post Metal (Chain-Link Fence Fabric)

American Association of State Highway Transportation Officials  
M-181 Chain Link Fence, Type II

### 4. TECHNICAL DATA

#### General:

The manufacturer, if requested, will supply samples and certification that all materials furnished fully comply with the appropriate specifications.

#### Chain Link Fence Fabric:

The base metal of the chain link fence fabric is composed of commercial quality sizes with allowable variances, and wire breaking strength, as shown in **Table 2**, conform to ASTM A 817 for the wire size specified. The wire is aluminum coated before weaving.

#### Sizes:

Aluminized fabric is available in mesh sizes from 3/8 inch to 2 inches (10 mm to 50 mm), and in heights for 36 inches to 240 inches (910 mm to 6,100 mm). **See Table 1.**

Unless otherwise specified, chain link fence fabric woven with a 2 inch (50 mm) mesh and 60 inches (1,520 mm) or less in height is knuckled at both selvages; for fabrics 72 inches (1,820 mm) or greater in height the selvages are knuckled at one edge and twisted at the other. All fabrics that are woven into mesh sizes under 2 inches are knuckled at both selvages.

### 5. INSTALLATION

Install chain link fence fabric in accordance with ASTM Practice 567.

### 6. AVAILABILITY AND COST

#### Availability:

Aluminum coated steel chain link fence fabric is available for shipment throughout the United States and worldwide.

#### Cost:

Material costs may vary depending of specific requirements. Costs may be obtained by calling Southwestern Wire, Inc. or one of their stocking dealers.

### 7. WARRANTY

Aluminum coated steel chain link fence fabric is warranted for 15 years against failure due to rust or corrosion. Note: ASTM specification A491, Federal specification RR-F-191 and other major specifications state that discoloration or rust on the cut ends of aluminum coated fabric at the selvages are not cause for rejection.

### 8. MAINTENANCE

Periodic inspection is recommended but no routine maintenance is required.

### 9. TECHNICAL SERVICES

Technical services are available at Southwestern Wire, Inc. by calling 1-800-348-9473.



## Aluminum Coated Steel Chain Link Fence Fabric

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| Recommended Use       | Mesh Sizes Available |    | Nominal Wire | Height of Fence Fabric  |  |
|-----------------------|----------------------|----|--------------|---|--|
|                       | Inch                 | mm | gauge        | Inch (mm)   |  |
|                       |                      |    |              |   |  |
| Industrial/Commercial | 2"                   | 50 | 6            | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
|                       |                      |    | 9            | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
|                       |                      |    | 10           | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
|                       |                      |    | 11           | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
| Industrial/Security   | 1"                   | 25 | 6            | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
|                       |                      |    | 9            | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
| Security              | 1"                   | 25 | 9            | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
|                       |                      |    | 11           | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
|                       | 3/4"                 | 19 | 9            | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
|                       |                      |    | 11           | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
|                       | 5/8"                 | 16 | 9            | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
|                       |                      |    | 11           | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
| Tennis Court          | 1-3/4"               | 44 | 9            | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |
|                       |                      |    | 11           | 36(910),42(1,070),48(1,220),60(1,520), 72(1,830), 84(2,130), 96(2,440), 108(2,740), 120(3,050),144(3,660), 168(4,270), 192(4,880), 216(5,490), 240(6,100) |  |

Notes to tables: Red text indicates conformance with ASTM A-491  
 Fabric with other characteristics may be available. Contact the Sales Department at 1-800-348-9473

| Nominal Coated Wire |          |      | Allowable Variance                      |   | Aluminum Coating   |                  | Breaking Strength |          |
|---------------------|----------|------|---|---|--------------------|------------------|-------------------|----------|
| Gauge               | Diameter |      | Inch                                    | mm                                      | Weight, minimum    |                  | minimum           |          |
|                     | Inch     | mm   |   |   | oz/ft <sup>2</sup> | g/m <sup>2</sup> | lbf               | New tons |
| 6                   | 0.192    | 4.88 | <span style="color: red;">+0.005</span> | <span style="color: red;">+ 0.13</span> | 0.40               | 122              | 2,170             | 9,650    |
| 9                   | 0.148    | 3.76 | <span style="color: red;">+0.005</span> | <span style="color: red;">+0.13</span>  | 0.40               | 122              | 1,290             | 5,740    |
| 10                  | 0.135    | 3.43 | <span style="color: red;">+0.005</span> | <span style="color: red;">+0.13</span>  | 0.40               | 122              | 1,290             | 5,740    |
| 11                  | 0.120    | 3.05 | <span style="color: red;">+0.005</span> | <span style="color: red;">+0.13</span>  | 0.40               | 107              | 850               | 3,780    |

