Polyvinyl Chloride (PVC)- Coated Steel Chain Link Fence Fabric Class 1 – Extruded ASTM F 668, Federal specification RR-F-191 Type IV, AASHTO M-181 Type IV

1. PRODUCT NAME

Extruded Polyvinyl Chloride (PVC) 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 URL:http://www.southwesternwire.com

3. PRODUCT DESCRIPTION

Basic Use:

Extruded PVC coated fabric is a PVC-coated, high strength galvanized steel chain link fence fabric for industrial, commercial, and institutional applications. Extruded fabric is contained in local, state and federal government specifications for use in prison, road, dock, airport, housing, forestry and military use.

Composition and Materials:

The galvanized steel core wire for producing extruded PVC coated 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 is produced by the open hearth, electric furnace or basic oxygen process. Passing the cleaned wire through a bath of molten zinc that conforms to ASTM B6 produces the galvanized coating.

Extruding PVC at a coating thickness up to 0.025-in. (0.64-mm) produces the extruded PVC coating over a galvanized core wire

Standards:

Standards:
ASTM B 6 Slab Zinc
ASTM F567 Installation of Chain Link
Fence
ASTM F668 Polyvinyl Chloride
(PVC) and Other Organic Polymer-
Coated Steel Chain Link Fence
Fabric, Class 1
Federal specification RR-F-191K/1D
Fencing, Wire and Post Metal
(Chain-Link Fence Fabric), Type IV
American Association of State
Highway Transportation Officials
(AASHTO)-181 Chain Link Fence,
Type IV, Class A

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, mediumcarbon galvanized (zinc coated) steel wire. The vinyl coating is continuously applied over the galvanized wire by the extrusion process. The extrusion process ensures a dense and impervious coating free of voids, as well as a smooth and lustrous surfaces appearance. Vinyl coating thickness, galvanized coating weight, and wire tensile strength conform to ASTM F668, Class 1, Federal specification RR-F-191 Type IV, and AASHTO M-181 Type IV, Class A, as shown in Table 2. The wire is PVC coated before weaving and is free and flexible at all joints. Unless otherwise specified, fabric woven in 2 in. (50mm) mesh, under 72" (1,830 mm) in height, is knuckled at both selvages; fabric 72" (1,830 mm) high and over is knuckled at one selvage and twisted at the other. All fabrics woven into meshes under 2 in. (50 mm) have both selvages knuckled. See Table 1.

Wire Coating:

The Polyvinyl Chloride (PVC) coated wire from which the fabric is woven will demonstrate the ability to conform to all requirements and test in ASTM F668. The PVC coating resists attack from prolonged exposure to dilute solutions of most common mineral acids, seawater, and dilute solutions of most salts and alkali. See Table 3.

ASTM Color System:

Standard colors conform to ASTM F934 and include:

Dark		
Green	Brown	Black
28.61	27.76	22.30
-12.59	3.37	-0.09
1.95	4.28	-0.85
	Green 28.61 -12.59	GreenBrown28.6127.76-12.593.37

Other colors are available by special order.

Sizes:

PVC coated 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).

5. INSTALLATION

Install chain link fence fabric in accordance with ASTM Practice 567. Handle all PVC coated material with care. If PVC coating is damaged during installation, contractor must replace or repair the material at own expense.

6. AVAILABILITY AND COST

Availability:

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

Cost:

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

7. WARRANTY

Extruded PVC coated steel chain link fence fabric is warranted for 15 years against failure due to rust or corrosion.

8. MAINTENANCE

Periodic inspection is recommended but no routine maintenance is required.

9. TECHINICAL SERVICES

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



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			Fabria	Salvara	1		
			Fabric	Selvage			
Mesh	Size	Finish	Wire Height	K-Knuckled,	Rol	l Size	
inch	mm	Wire Gage	Inch (mm)	T-Twisted/Barbed	ft	m	
			36-240				
2"	50	6,8	(910-6,100)	КК, КТ, ТТ	50	15.24	
			36-240				
1-3/4"	44	6,8	(910-6,100)	KK Only	25	7.62	
			36-144				
1"	25	8	(910-3,660)	KK Only	25	7.62	
Maximum Security Mesh							
			36-72				
5/8"	16	11	(910-1,830)	KK Only	25	7.62	
			36-72				
1/2"	13	11	(910-1,830)	KK Only	25	7.62	
			36-72				
3/8"	10	11	(910-1,830)	KK Only	25	7.62	

Table 1 - PVC Coated Chain Link Fabric Sizes

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Specification

Technical

Fabric with other characteristics may be available. Contact the Southwestern Wire, Inc. Sales Department with specific requests.

Table 2 - PVC-Coated Steel Wire Characteristics

	Zinc Coated Core Wire Size		PVC Coated Finished Wire Size	PVC Coated Wire Allowable Variance Min.			Coating kness	Break Strenç minim	gth,	Ten Stre mi	ngth		
Ga	inch	mm	ga	inch	mm	oz/ft2	g/m2	inch	mm	lbf	Ν	ksi	MPa
9	0.148	3.76	6	<u>+0.005</u>	<u>+</u> 0.13	0.30	92	0.015	0.38	1,290	5,740	75	515
11	0.120	3.05	8	<u>+0.005</u>	<u>+</u> 0.13	0.30	92	to	to	850	3,780	75	515
14	0.080	2.03	11	<u>+</u> 0.005	<u>+</u> 0.13	0.25	76	0.025	0.64	380	1,690	75	515

Note: Core wire sizes less than 0.120" (3.05 mm) are not contained in Federal specification RR-F-191 or AASHTO M-181.

Table 3: Typical Vinyl Properties

Test	Test Method	Value
Specific Gravity	ASTM D 792	1.30 + 0.03
Hardness, Durometer	ASTM D 2240	A90 + 5
Tensile Strength	ASTM D 412	2,600 + 5%
Ultimate Elongation	ASTM D 412	275% + 5%
Mandrel Bend Test, 10x mandrel	ASTM F 668	-20degreeF('-29degreeC)
Dielectric Strength, volt/mil	ASTM D 149	750
Compression sut-thought, lbs	Bell Labs	1,500
Accerated Aging Test	ASTM D 1499	1500 hrs. @145degreeF

Questions regarding any technical information or special requests for non-standard product should be directed to the sales department at Southwestern Wire, Inc.

