

Ceel-Co® 300 Series PVC

Fitting Covers and Jacketing for Industrial Applications

Description

Ceel-Co 300 Series PVC heavy-duty fitting covers and jacketing are specifically designed for industrial and commercial applications.

Because of their added thickness and improved thickness distribution, they exhibit excellent impact resistance, increased durability, superior UV resistance and reduced chance of "burn through" when solvent welding.

Ceel-Co 300 Series PVC fitting covers are produced from a white, glossy, high impact, UV-resistant polyvinyl chloride compound. Available in many shapes and sizes, they fit quickly and snugly over a variety of pipe fittings.

Made from the same rugged, pliable PVC material, Ceel-Tite™ PVC jacketing is designed to match the Ceel-Co 300 Series fitting covers. For use over insulated pipe and bare metal, Ceel-Tite jacketing is easy to install and maintain, provides an inherent vapor retarder, and will withstand water and most chemical and low-solvent washdowns.

Available Shapes and Sizes

Fitting Covers. Ceel-Co 300 Series heavy gauge PVC fitting covers are available in many shapes and sizes. Its two piece or two-piece welded construction provides ease of fabrication in the field not available in a traditional one-piece fitting cover. This construction is engineered to accommodate various types of fabricated insulation fittings and an improved "matched" fit in the fitting throat area when solvent welding.

Ceel-Co 300 Series heavy gauge is available in shapes for 90° and 45° (1.6 and 0.8 rad.) short and long radius elbows, tees, and valves plus a wide variety of other fittings, flanges, reducers, end caps, soil pipe hubs, traps, and mechanical line fittings. IPS sizes are available from 3/8" through 20" (10 mm through 508 mm); CT sizes from 1/2" through 6 1/4" (13 mm through 156 mm).

A variety of fitting covers and jacketing are available, in color, on a special order basis. They are recommended for indoor use only and are not UV resistant or 25/50 rated. Call for availability.

Rolls. Ceel-Co 300 Series PVC jacketing is available in standard thicknesses of 10, 15, 20, 30 and 40 mil (0.3, 0.4, 0.5, 0.8 and 1.0 mm) and in standard widths as shown below. Non-standard sizes are available on special request.

Ceel-Tite PVC Jacketing. Ceel-Co 300 Series heavy gauge fitting covers may be used with Ceel-Tite PVC jacketing for perfect fit and color match. Ceel-Tite is available in both white and colors for 300 Series fitting applications.

The 30 mil (0.8 mm) thickness is recommended for outdoor applications.

Custom Shapes and Sizes

For fitting covers and Ceel-Tite jacketing sizes larger than 20" (508 mm) and custom shapes and sizes, call for availability.



Operating Temperature Limits:

PVC: Up to 150°F (66°C)

Flame Spread: 25 or less (up to 30 mil [0.8 mm])

Smoke Developed: 50 or less (up to 30 mil [0.8 mm])

Grade: Weatherable

Color: White

Finish: Gloss

Applications

For insulating and protecting indoor and outdoor industrial and commercial piping systems, Ceel-Co 300 Series PVC is the ideal replacement for aluminum, stainless steel, and most other ordinary insulation coverings. The fitting covers, combined with Ceel-Co 300 Series PVC jacketing and Ceel-Tite welding adhesive form a completely sealed system that meets the requirements of USDA and FDA for use in the food processing, beverage and pharmaceutical industries.

Advantages

Exceptional Durability. The tough, durable Ceel-Co 300 Series PVC resists damage from impact and will withstand humidity, salt water, adverse weather conditions, and most industrial fumes. In addition, the jacketing will not support combustion.

Weatherability. When used outdoors, the ultraviolet-resistant 300 Series jacketing and fitting covers need not be painted or coated.

Corrosion Resistance. Unlike aluminum or most stainless steel jacketing materials, Ceel-Co 300 Series PVC is immune to galvanic or electrolytic corrosion.

Ease of Maintenance. The jacketing and fitting covers are easily washed down with soap and water and most commercial cleaners. The ability to be easily cleaned, combined with the non-toxic, odorless and tasteless properties of the material and its attractive appearance, make it especially suitable for food, beverage and pharmaceutical applications.

Simple, Fast Installation. The Ceel-Co 300 Series is easy to apply with the special Ceel-Tite welding adhesive which is similar in composition to the 300 Series jacketing material. The result is a monolithic system. Suitable bands may be used when required.

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Specification Compliance

USDA New York City MEA #7-87	L-P-535E*, Composition A, Type II, Grade GU
ICBO	L-P-1035A*, Composition A, Type II, Grade GU
SBCCI	Type II, Grade GU
BOCA	Canada: CAN S102.2
ASTM D 1784, Class 16354-C	CGSB 51-GP-53M

*Impact strength determined by Gardner—SPI test method rather than Izod, since Gardner is more appropriate for PVC sheeting materials.

Standard Stock Dimensions of Ceel-Co 300 Series

PVC Jacketing in Rolls

Thickness		Width		Length		Area	
mil	mm	in	mm	ft.	m	sq. ft.	m ²
10	0.3	35½	902	203	62	600	56
10	0.3	48	1219	200	61	800	74
10	0.3	48	1219	100	31	200	19
15	0.4	35½	902	135	41	400	37
15	0.4	48	1219	100	31	400	37
15	0.4	48	1219	50	15	200	19
20	0.5	35½	902	102	31	300	28
20	0.5	48	1219	100	31	400	37
20	0.5	48	1219	50	15	200	19
30	0.8	35½	902	102	31	300	28
30	0.8	48	1219	100	31	400	37
30	0.8	48	1219	50	15	200	19
40	1.0	48	1219	100	31	400	37
40	1.0	48	1219	50	15	200	19

Physical Properties

Property	Value	ASTM Test Method
Specific Gravity	1.48	D 792
Tensile Strength at Yield, psi (kPa)	6,000 (41,370)	D 638
Elongation at Yield (MD), %	3.0	D 638
Tensile Modulus, psi (kPa)	470,000 (3,240,650)	D 638
Flexural Strength, psi (kPa)	11,600 (79,982)	D 790 (min. .125" [3 mm] thick)
Flexural Modulus, psi (kPa)	460,000 (3,171,700)	D 790
Flame Spread	25 or less (up to 25 mil [0.6 mm])	E 84
Smoke Developed	50 or less (up to 25 mil [0.6 mm])	E 84
Electrical Conductance	Non-Conductor	D 257
Gardner—SPI Impact, in. lb./mil by Ductile Failure	10 mil (0.3 mm) 1.3 15 mil (0.4 mm) 1.4 20 mil (0.5 mm) 1.5 30 mil (0.8 mm) 1.6	D 3679 (4 lb. [1.8 kg] weight; 8 lb. [3.6 kg] for 30 mil [0.8 mm])

Note: Chemical resistance data available on request.

CEEL-CO®

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Mechanical Insulations

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The physical and chemical properties of Ceel-Co® 300 Series PVC Fitting Covers and Jacketing represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Ceel-Co plant to assure current information.