

Pipe Insulation Sleeves and Washers

Designed for Long-Life Operation

Flange gaskets alone cannot electrically isolate sections of buried pipelines. For complete isolation, insulating sleeves and washers must be used in conjunction with these gaskets. Corpro supplies an assortment of flange sleeves and washers that have proven to deliver long-life performance. The insulating sleeves are available in Mylar[®], polyethylene, phenolic, and Nomex[®], as well as several other insulating materials. Each material possesses a high dielectric strength and a low water-absorption rate. To address all types of application, the sleeves are available for standard American bolt diameters from 1/2 inch to 3 1/2 inches.

Insulating washers are made from high-strength phenolic, and provide tough, positive insulation. They are also offered in the same bolt diameters as the insulating sleeves, and are provided with steel washers for improved mechanical strength.

In addition to separate insulating sleeves and washers, Corpro also supplies one-piece insulators. The combined units are made from molded acetal resin and Minlon[®]. Both materials exhibit exceptional resilience and compression strengths. A special feature of the insulating units is a washer-centering ring, which helps to position steel washers so that uneven pressures can be avoided.



Typical Applications

Insulating sleeves and washers used in conjunction with insulating flange gaskets control electrical-current flow on gas, oil, and water pipelines. Because all materials have different mechanical and physical properties, selection of the sleeves and washers should be based on the pressure, temperature, and dielectric requirements for your particular application.

**Authorized Distributor for the
Following Manufacturers**

PSI
Central Plastics Company



Corpro Companies Europe Limited

Adam Street, Bowesfield Lane, Stockton on Tees, TS18 3HQ

Telephone: (01642) 614106 (8 lines) Telex: 587388

Fax: (01642) 614100 E-mail: ccel@corrpro.co.uk

Pipe Insulation Sleeves and Washers

Ordering Procedure

Corrpro is an authorized distributor for several quality sleeve and washer manufacturers. To order the right materials for your particular application, indicate the quantity desired, and specify the sleeve and washer brand, material composition, and pipe size and pressure rating. An example is included to help illustrate this process.

Ordering Procedure Example	
ITEM	EXAMPLE
Quantity	<i>20 sets Dbl. Washers</i>
Sleeve/Washer Brand	<i>Central</i>
Material Sleeve	<i>Mylar</i>
Washer	<i>CE Phenolic</i>
Pipe Size	<i>2 in.</i>
ANSI Pressure	<i>150 PSI</i>

Dielectric Washer Materials						
MFG.	WASHER MATERIAL	DIELECTRIC STRENGTH (VOLTS/MIL)	WATER ABSORB (%)	MAX. OPER. TEMP.		COMPRESS. STRENGTH (PSI)
				°F	(°C)	
Central	Minlon 11 C-40	420	.070	250	(121)	19,000
	<i>CE Phenolic*</i>	<i>300</i>	<i>1.22</i>	<i>225</i>	<i>(107)</i>	<i>26,400</i>
	G-7 Micarta	250	0.13	450	(232)	40,000
PSI	Glass Clad Phenolic	500	1.60	300	(149)	33,000
	G-3	550	0.70	350	(177)	50,000
	G-7	350-400	0.07	450	(232)	40,000
	G-10	550	0.10	280	(138)	50,000
	G-11	550	0.10	350	(177)	50,000 - 80,000

* CE Phenolic is readily stocked

Dielectric Sleeve Materials					
MFG.	SLEEVE MATERIAL	DIELECTRIC STRENGTH (VOLTS/MIL)	WATER ABSORB. (%)	MAX. OPER. TEMP.	
				°F	(°C)
Central	Polyethylene	450	0.10	180	(82)
	<i>Mylar*</i>	<i>420</i>	<i>0.08</i>	<i>300</i>	<i>(149)</i>
	Minlon	420	0.70	250	(121)
	LE Phenolic	140	2.0	225	(107)
	Nomex	580	N/A	450	(232)
PSI	Polyethylene	400	0.01	180	(82)
	Mylar	4,000	0.80	380	(193)
	Nomex	400	N/A	450	(232)
	Phenolic	400	1.60	225	(107)
	G-7	350	0.10	450	(232)
G-10	450	0.10	280	(138)	

* Mylar is readily stocked.



Corrpro Companies Europe Limited

Adam Street, Bowsfield Lane, Stockton on Tees, TS18 3HQ

Telephone: (01642) 614106 (8 lines) Telex: 587388

Fax: (01642) 614100 E-mail: ccel@corrpro.co.uk