

XIRTEC PVC & CORZAN CPVC

PVC Sch 40 - 1/2" - 24" (12mm - 600mm)
PVC Sch 80 - 1/4" - 24" (6mm - 600mm)
CPVC Sch 40 & 80 - 1/4" - 16" (6mm - 400mm)

Xirtec[®]140 CORZAN[®]

THE IPEX SYSTEM ADVANTAGE

IPEX vinyl process piping systems; a complete line of pipe, fittings, flanges, strainers and valves to meet all your process system requirements.

IPEX developed the Xirtec[®]140 (PVC) and Corzan[®] (CPVC) systems to meet industry demands for a complete Pipe, Valves and Fittings (PVF) package that is designed, produced and backed by a single manufacturer. These systems are engineered and manufactured to IPEX's strict quality, performance and dimensional standards, and therefore eliminate the problems inherent in purchasing and installing piping system components manufactured by several different companies.

IPEX high-performance vinyl systems are designed to meet the temperature, pressure and size requirements of piping systems used in chemical processes and other industrial applications. They feature outstanding resistance to photodegradation, creep stress and immunity to oxidation, and are exceptionally suited for use with a wide range of acids, alcohols, salts and halogens. The perfect extended service, low maintenance alternative to common and exotic metal systems.

Xirtec140 pipe and fittings and Corzan pipe are available in Schedule 40 and 80, IPS. Corzan fittings are available in Schedule 80. All pipe and fittings are also available in cast iron sizes for underground applications.

APPLICATIONS

- Plant chemical distribution lines
- Water and wastewater
- Acid systems for refineries, pickling lines and plating shops
- Chlorine injection, chlorine dioxide and chloralkali plant piping
- Steel wire plants
- Battery manufacturing
- Bleach lines in textile and paper mills
- Alum and caustic handling systems
- Circuit board manufacturing
- Semiconductor
- Pharmaceutical
- Cooling water and cooling tower systems
- Tailing and slurry lines
- Washwater recovery systems
- Plant water supply
- Brine and seawater systems
- Fish farming
- Waterworks
- Aquariums and swimming pools
- Irrigation systems in golf courses, greenhouses, etc.

STANDARDS

| XIRTEC140 | CORZAN |
|---|---|
|  ASTM D1785 |  ASTM F441 |
|  CSA B137.3 |  NSF |
|  NSF 14 |  ULC-102.2 |

Caution: Do not use or test PVC or CPVC with compressed air or other gases including air-over-water boosters.

ADVANTAGES

- 1 Lower Installation Costs, Easy Handling**

In addition to a lower material cost, Xirtec & Corzan pipe can significantly reduce labour and transportation costs on a typical installation. The reason? They are lightweight, easily handled, stored, cut and joined.
- 2 Extended Life**

Xirtec PVC and Corzan CPVC provide years of maintenance free service. Our materials will not rust, pit, scale or corrode on either interior or exterior surfaces. Thermoplastic piping systems in a variety of demanding industrial applications have operated successfully for over 45 years.
- 3 Superior Underground Performance**

Xirtec and Corzan CPVC are immune to damage from naturally corrosive soil conditions as well as electrochemical and galvanic corrosion. This is particularly advantageous in underground installations where galvanic reaction often causes damage to metal piping products.
- 4 Exceptional Chemical Resistance**

The IPEX vinyl systems, including pipe, valves and fittings, provide outstanding resistance to a wide range of chemicals such as most acids, alcohols, alkalies, salt solutions, halogens and more.
- 5 Improved Flow**

Xirtec and Corzan have a substantially lower Roughness Factor than metal and other materials, and since they do not rust, pit, scale or corrode, the interior walls remain smooth in virtually any service.
- 6 Potable Water Approved**

Xirtec140 polyvinyl chloride (PVC) and Corzan chlorinated polyvinyl chloride (CPVC) are suitable for use with potable water as listed with the National Sanitation Foundation (NSF) and CSA International.
- 7 Exceptional Temperature Range**

IPEX vinyl systems are designed to meet a broad range of service temperatures. Xirtec has a recommended maximum service temperature of 140°F (60°C) in pressure, with a higher limit of 180°F (82°C) for intermittent gravity flow.
- 8 Lower Thermal Conductivity**

With a low thermal conductivity factor, IPEX vinyl systems have less heat loss or gain, thus sustaining service temperature more efficiently than metal piping. As a result, pipe insulation needs may be reduced.
- 9 Environmentally Responsible**

With energy conservation a prime concern, you can rely on the fact that IPEX's manufacturing process for Xirtec and Corzan piping materials requires less than half the energy needed to produce the equivalent size of carbon steel or steel alloy materials.



i DID YOU KNOW?

One of the outstanding characteristics of PVC is its resistance to ignition. This is demonstrated by its flash point of 730°F (388°C), compared to 400°F (204°C) for wood chips.

CPVC offers an even greater fire safety profile than PVC. CPVC's ignition resistance is demonstrated by its flash point of 900°F (482°C), with a low flame spread as well.

PRODUCT SELECTION CHART

PIPE PRESSURE RATINGS – XIRTEC140 PVC AND CORZAN CPVC

| Sizes | | IPEX schedule 40 | | | IPEX Schedule 80 | | |
|-------------------|---------------|-------------------------|---------------|---------------------------------|-------------------------|---------------|---------------------------------|
| Diameter (in.) | O.D. (in.) | Wall Thickness (in.) | I.D. (in.) | *Max. Pressure 73°F (psi) | Wall Thickness (in.) | I.D. (in.) | *Max. Pressure 73°F (psi) |
| 1/4 | .540 | – | – | – | .119 | .302 | 1,130 |
| 3/8 | .675 | – | – | – | .126 | .423 | 920 |
| 1/2 | .840 | .109 | .602 | 600 | .147 | .526 | 850 |
| 3/4 | 1.050 | .113 | .804 | 480 | .154 | .722 | 690 |
| 1 | 1.315 | .133 | 1.029 | 450 | .179 | .936 | 630 |
| 1-1/4 | 1.660 | .141 | 1.360 | 370 | .191 | 1.255 | 520 |
| 1-1/2 | 1.900 | .145 | 1.590 | 330 | .200 | 1.476 | 470 |
| 2 | 2.375 | .154 | 2.047 | 280 | .218 | 1.913 | 400 |
| 2-1/2 | 2.875 | .203 | 2.445 | 300 | .276 | 2.290 | 420 |
| 3 | 3.500 | .216 | 3.042 | 260 | .300 | 2.864 | 370 |
| 4 | 4.500 | .237 | 3.998 | 220 | .337 | 3.786 | 320 |
| 6 | 6.625 | .280 | 6.031 | 180 | .432 | 5.709 | 280 |
| 8 | 8.625 | .322 | 7.941 | 160 | .500 | 7.565 | 250 |
| 10 | 10.750 | .365 | 9.976 | 140 | .593 | 9.493 | 230 |
| 12 | 12.750 | .406 | 11.888 | 130 | .687 | 11.294 | 230 |
| 14 | 14.000 | .438 | 13.072 | 130 | .750 | 12.412 | 220 |
| 16 | 16.000 | .500 | 14.936 | 130 | .843 | 14.224 | 220 |
| 18 | 18.000 | .562 | 16.809 | 130 | .937 | 16.014 | 220 |
| 20 | 20.000 | .593 | 18.743 | 120 | 1.031 | 17.814 | 220 |
| 24 | 24.000 | .687 | 22.544 | 120 | 1.218 | 21.418 | 210 |

XIRTEC 140 PRESSURE PIPE

| Dimension | | PRODUCT CODE | | | | | | | |
|-------------|----------|----------------------------|---------------------------|--------------------------|---------------------------|--------------------------|-----------------------|-----------------------|------------------------------|
| inches | mm | PVC Sch 40 White Plain End | PVC Sch 40 White Bell End | PVC Sch 40 Grey Bell End | PVC Sch 80 Grey Plain End | PVC Sch 80 Grey Bell End | CPVC Sch 40 Plain End | CPVC Sch 80 Plain End | CPVC Sch 80 Solvent Bell End |
| 1/2 x 10' | 12 x 3m | 022600 | 022603 | 022004 | - | 085106 | - | - | - |
| 3/4 x 10' | 20 x 3m | 022633 | 022604 | 022011 | - | 085111 | - | - | - |
| 1 x 10' | 25 x 3m | 022612 | 022611 | 022016 | - | 085114 | - | - | - |
| 1-1/4 x 10' | 32 x 3m | 022608 | 022674 | 022027 | - | 085119 | - | - | - |
| 1-1/2 x 10' | 40 x 3m | 022614 | 022616 | 022032 | - | - | - | - | - |
| 2 x 10' | 50 x 3m | 022618 | 022619 | 022037 | - | - | - | - | - |
| 2-1/2 x 10' | 65 x 3m | 022621 | - | 022042 | - | - | - | - | - |
| 3 x 10' | 75 x 3m | 022637 | 022624 | 022046 | - | - | - | - | - |
| 4 x 10' | 100 x 3m | 022626 | 022628 | - | 085138 | - | - | - | - |
| 6 x 10' | 150 x 3m | 022666 | 022659 | - | 085143 | - | - | - | - |
| 1/4 x 20' | 6 x 6m | - | - | - | 085103 | - | - | - | - |
| 3/8 x 20' | 10 x 6m | - | - | - | 085104 | - | - | - | - |
| 1/2 x 20' | 12 x 6m | 022602 | 022601 | - | 085101 | 085108 | 019300 | 019203 | - |
| 3/4 x 20' | 20 x 6m | 022677 | 022607 | - | 085107 | 085112 | 019301 | 019205 | - |
| 1 x 20' | 25 x 6m | 022606 | 022610 | - | 085110 | 085116 | 019302 | 019207 | - |
| 1-1/4 x 20' | 32 x 6m | 022678 | 022617 | - | 085117 | 085122 | 019303 | 019209 | - |
| 1-1/2 x 20' | 40 x 6m | 022675 | 022615 | - | 085115 | 085127 | 019304 | 019211 | 019031 |
| 2 x 20' | 50 x 6m | 022679 | 022620 | - | 085120 | 085132 | 019305 | 019213 | 019032 |
| 2-1/2 x 20' | 65 x 6m | 022646 | 022625 | - | 085125 | 085134 | 019306 | 019216 | - |
| 3 x 20' | 75 x 6m | 022623 | 022630 | - | 085130 | 085137 | 019307 | 019217 | 019033 |
| 4 x 20' | 100 x 6m | 022627 | 022640 | 022040 | 085140 | 085139 | 019308 | 019219 | 019256 |
| 5 x 20' | 125 x 6m | 022651 | 022650 | - | 085150 | - | - | - | - |
| 6 x 20' | 150 x 6m | 022665 | 022660 | 022060 | 085160 | 085162 | 019309 | 019220 | 019218 |
| 8 x 20' | 200 x 6m | 022681 | 022680 | 022058 | 085180 | 085147 | 019310 | 019221 | 019255 |
| 10 x 20' | 250 x 6m | 022691 | 222690 | 022061 | 085190 | 085192 | 019013 | 019222 | - |
| 12 x 20' | 300 x 6m | 022693 | 022692 | 022064 | 085195 | 085151 | 019016 | 019223 | - |
| 14 x 20' | 350 x 6m | 022682 | 022694 | - | 085158 | 085152 | - | 019228 | - |
| 16 x 20' | 400 x 6m | 022683 | 022696 | - | 085153 | 085155 | 019226 | 019229 | - |
| 18 x 20' | 450 x 6m | 022687 | 022697 | - | 085159 | - | - | - | - |
| 20 x 20' | 500 x 6m | 022702 | 022698 | - | - | 085170 | - | - | - |
| 24 x 20' | 600 x 6m | 022704 | 022699 | - | - | 085171 | - | - | - |

FOR XIRTEC 140 PVC SCHEDULE 40 WHITE

† Fabricated fittings

■ Molded fittings: 150 psi max. working pressure, non-shock @ 23°F (73°F)

FOR XIRTEC 140 PVC SCHEDULE 40 GREY

† Indicates fabricated and fiberglass reinforced pipe fittings

■ Indicates Series 160 Fabricated and Fiberglass reinforced pipe fittings. The maximum continuous working pressure of fittings is 160 psi @ 23°C (73°F) under ideal conditions. no provisions have been made for pressure surges, water hammer, or other conditions which should be considered.