

CORZAN® HP

The IPEX CORZAN® HP CPVC pipe has been specially developed with greater pressure and high temperature performance. IPEX CORZAN HP has a 25% higher pressure rating than the equivalent sized CPVC at 180°F. Schedule 80 pipe is certified to NSF SE 8459. This specification requires CPVC pipe to meet or exceed a 24448 cell class and have an HDB of 4000 psi at 72°F and 1250 psi at 180°F. With high impact, abrasion, chemical and corrosion resistance, this lightweight material is ideal for marine and offshore applications.

ADVANTAGES

- ① IPEX Corzan HP pipe possesses a 24448 cell class. That means that the impact strength and heat deflection temperature of our HP CPVC is superior compared to generic 23447 CPVC compounds.
- ② IPEX Corzan HP material is approved by the US Coast Guard for use on US flagged ships. (Coast Guard Approval Number: 164.141/B35/0 and the American Bureau of Shipping (ABS certificate number: 17-HS1609049-PDA)
- ③ IPEX Corzan HP utilizes the same solvent cement installation method as Corzan CPVC and can be joined using Corzan grade solvent cements and primers that meet or exceed the requirements of ASTM F656. Expansion coefficients, support spacing, and chemical resistance remain identical to IPEX Corzan CPVC eliminating the for additional installer training.

APPLICATIONS

- Chemical processing
- Semiconductor and electronics
- Water treatment
- Industrial manufacturing
- Mining
- Power generation

MARINE & OFFSHORE APPLICATIONS

- Potable water
- Deck wash system – supply and drainage
- Desalinization and chemical waste treatment
- Black Water
- Brine
- Ballast treatment piping

STANDARDS



IPEX CORZAN HP meets or exceeds the requirements of:

- ASTM F441 and NSF SE 8459 for Sch. 80 pipe
- NSF 61

CORZAN VS CORZAN HP

SCHEDULE 80 PIPE PRESSURE RATINGS

Operating Temp. Pipe / Fitting	70°F		120°F		180°F	
Size	Corzan psi	Corzan HP psi	Corzan psi	Corzan HP psi	Corzan psi	Corzan HP psi
1/2"	850	850	553	595	213	264
3/4"	690	690	449	483	173	214
1"	630	630	410	441	158	195
1-1/4"	520	520	338	364	130	161
1-1/2"	470	470	306	329	118	146
2"	400	400	260	280	100	124
2-1/2"	420	420	273	294	105	130
3"	370	370	241	259	93	115
4"	320	320	208	224	80	100
6"	280	280	182	196	70	87
8"	250	250	163	175	63	78



DID YOU KNOW?

Corzan® HP pipe is available up to 8" diameter, and boasts a 25 percent higher pressure rating than standard CPVC at 180°F (82°C). It is also the only fully pressure-rated schedule 80 pipe on the market today.

PRODUCT SELECTION CHART

PVC PIPE PRESSURE RATINGS

Sizes		Schedule 40 PVC			Schedule 80 PVC		
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

CPVC PIPE PRESSURE RATINGS

Sizes		Schedule 40 CPVC			Schedule 80 CPVC				Schedule 80 HP CPVC			
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)	*Max. Pressure 180°F (psi)	Wall Thickness (in.)	I.D. (in.)	*Max. Pressure 73°F (psi)	*Max. Pressure 180°F (psi)
1/2	.840	.109	.602	600	.147	.526	850	213	.147	.526	850	264
3/4	1.050	.113	.804	480	.154	.722	690	173	.154	.722	690	214
1	1.315	.133	1.029	450	.179	.936	630	158	.179	.936	630	195
1-1/4	1.660	.141	1.360	370	.191	1.255	520	130	.191	1.255	520	161
1-1/2	1.900	.145	1.590	330	.200	1.476	470	118	.200	1.476	470	146
2	2.375	.154	2.047	280	.218	1.913	400	100	.218	1.913	400	124
2-1/2	2.875	.203	2.445	300	.276	2.290	420	105	.276	2.290	420	130
3	3.500	.216	3.042	260	.300	2.864	370	93	.300	2.864	370	115
4	4.500	.237	3.998	220	.337	3.786	320	80	.337	3.786	320	100
6	6.625	.280	6.031	180	.432	5.709	280	70	.430	5.709	280	87
8	8.625	.322	7.941	160	.500	7.565	250	63	.500	7.565	250	78
10	10.750	.365	9.976	140	.593	9.493	230	58	–	–	–	–
12	12.750	.406	11.888	130	.687	11.294	230	58	–	–	–	–
14	14.000	.438	13.072	130	.750	12.412	220	55	–	–	–	–
16	16.000	.500	14.936	130	.843	14.224	220	55	–	–	–	–

* Maximum pressure @

PVC AND CPVC PRESSURE PIPE

Dimension inches	PRODUCT CODE								
	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 Bell End	HP CPVC Sch 80 Plain End
1/2 x 10'	022600	022603	022004	–	085106	–	–	–	
3/4 x 10'	022633	022604	022011	–	085111	–	–	–	
1 x 10'	022612	022611	022016	–	085114	–	–	–	
1-1/4 x 10'	022608	022674	022027	–	085119	–	–	–	
1-1/2 x 10'	022614	022616	022032	–	–	–	–	–	
2 x 10'	022618	022619	022037	–	–	–	–	–	
2-1/2 x 10'	022621	–	022042	–	–	–	–	–	
3 x 10'	022637	022624	022046	–	–	–	–	–	
4 x 10'	022626	022628	–	085138	–	–	–	–	
5 x 10'	–	–	–	–	–	–	–	–	
6 x 10'	022666	022659	–	085143	–	–	–	–	
1/4 x 20'	–	–	–	085103	–	–	–	–	
3/8 x 20'	–	–	–	085104	–	–	–	–	
1/2 x 20'	022602	022601	–	085101	085108	019300	019203	–	019035
3/4 x 20'	022677	022607	–	085107	085112	019301	019205	–	019036
1 x 20'	022606	022610	–	085110	085116	019302	019207	–	019037
1-1/4 x 20'	022678	022617	–	085117	085122	019303	019209	–	019038
1-1/2 x 20'	022675	022615	–	085115	085127	019304	019211	–	019039
2 x 20'	022679	022620	–	085120	085132	019305	019213	–	019040
2-1/2 x 20'	022646	022625	–	085125	085134	019306	019216	–	019041
3" x 20'	022623	022630	–	085130	085137	019307	019217	–	019042
4 x 20'	022627	022640	022040	085140	085139	019308	019219	–	019043
5 x 20'	022651	022650	–	085150	–	–	–	–	–
6 x 20'	022665	022660	022060	085160	085162	019309	019220	019218	019044
8 x 20'	022681	022680	022058	085180	085147	019310	019221	019255	019045
10 x 20'	022691	222690	022061	085190	085192	019013	019222	–	–
12 x 20'	022693	022692	022064	085195	085151	019016	019223	–	–
14 x 20'	022682	022694	–	085158	085152	–	019228	–	–
16 x 20'	022683	022696	–	085153	085155	019226	019229	–	–
18 x 20'	022687	022697	–	085159	–	–	–	–	–
20 x 20'	022702	022698	–	–	085170	–	–	–	–
24 x 20'	022704	022699	–	–	085171	–	–	–	–