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HDPE PIPE IS OUR BUSINESS



# High Temperature Solution for Industrial, District Energy, Geothermal, Mining and Energy Applications

## +30% Higher Max Temperature

Continuous Operational Temperatures from -49°F to 180°F compared to a limit of 140°F for normal PE 4710 materials per ASTM D2837 and as listed in PPI-TR 4

## Highest Chlorine Resistance

Patented Stabilizer System for High Temperature Oxidative Environments with ASTM D3350 CC3 rating for the highest Chlorine Categorization Rating

## Same Fusion, Same Machine

No Change to Fusion Procedure per ASTM F2620 and equipment/tools used to join pipe and fittings

## +20X Stress Crack Resistance

Pipe Notch Testing to simulate Slow Crack Growth scenario per ASTM F1473 is valued at 10,000 hrs vs 500 hrs for HDPE

## Sandless Installation = Lower Total Cost

Use of Native Backfill Material from Trench for Shallow, non-traffic applications stemming from material's increased PENT rating per ASTM F1473

## High Temperature Fitting Solution

Full range Size and Pressure Capabilities for Molded and Fabricated Fitting options

Please Contact for Additional Technical Information or Tailored Presentation

**NORTHERN CALIFORNIA**  
511 Tunnel Avenue  
Brisbane, CA 94005  
415.467.4630  
PFDistributors.com

**NEVADA**  
675-B Edison Way  
Reno, NV 89502  
775.856.1888

**SOUTHERN CALIFORNIA**  
1304 E. San Bernardino Ave  
San Bernardino, CA 92408  
909.799.7800

**CENTRAL CALIFORNIA**  
4039-C Well Tech Way  
Bakersfield, CA 93308  
661.589.7300

## High Temperature Common Pipe Sizing Availability HDPE - PE 4710/PE100

IPS		DR 7			DR 9			DR 11			DR 17			DR 21		
Pipe Size, in.	OD, in.	Min. Wall, in.	Avg. ID, in.	Wgt. lbs./ft.	Min. Wall, in.	Avg. ID, in.	Wgt. lbs./ft.	Min. Wall, in.	Avg. ID, in.	Wgt. lbs./ft.	Min. Wall, in.	Avg. ID, in.	Wgt. lbs./ft.	Min. Wall, in.	Avg. ID, in.	Wgt. lbs./ft.
2	2.375	0.339	1.656	0.95	0.264	1.816	0.77	0.216	1.917	0.64	0.140	2.079	0.43	0.113	2.135	0.35
3	3.50	0.500	2.440	2.06	0.389	2.676	1.66	0.318	2.825	1.39	0.206	3.064	0.94	0.167	3.147	0.77
4	4.50	0.643	3.137	3.40	0.500	3.440	2.75	0.409	3.633	2.31	0.265	3.939	1.55	0.214	4.046	1.27
6	6.625	0.946	4.619	7.37	0.736	5.064	5.96	0.602	5.348	5.00	0.390	5.799	3.36	0.315	5.956	2.75
8	8.625	1.232	6.013	12.50	0.958	6.593	10.11	0.784	6.963	8.47	0.507	7.549	5.69	0.411	7.754	4.66
10	10.75	1.536	7.494	19.42	1.194	8.218	15.70	0.977	8.678	13.16	0.632	9.409	8.83	0.512	9.665	7.24
12	12.75	1.821	8.889	27.31	1.417	9.747	22.08	1.159	10.293	18.51	0.750	11.160	12.43	0.607	11.463	10.19
14	14.00				1.556	10.702	26.63	1.273	11.302	22.32	0.824	12.254	14.98	0.667	12.587	12.28
16	16.00				1.778	12.231	34.78	1.455	12.916	29.15	0.941	14.005	19.57	0.762	14.385	16.04
18	18.00				2.000	13.760	44.02	1.636	14.531	36.89	1.059	15.755	24.77	0.857	16.183	20.30
20	20.00				2.222	15.289	54.34	1.818	16.145	45.54	1.176	17.506	30.58	0.952	17.981	25.07
22	22.00							2.000	17.760	55.10	1.294	19.256	37.00	1.048	19.779	30.33
24	24.00							2.182	19.375	65.58	1.412	21.007	44.03	1.143	21.577	36.10
26	26.00										1.529	22.758	51.67	1.238	23.375	42.36
28	28.00										1.647	24.508	59.93	1.333	25.173	49.13
30	30.00										1.765	26.259	68.80	1.429	26.971	56.40
32	32.00										1.882	28.009	78.28	1.524	28.770	64.17
34	34.00										2.000	29.760	88.37	1.619	30.568	72.44
36	36.00										2.118	31.511	99.07	1.714	32.366	81.21
42	42.00													2.000	37.760	110.54

Source: Performance Pipe

Operating Temperature							
Application	Dimensional Ratio	73°F	100°F	120°F	140°F	160°F	180°F
Water, Brine Alcohols, Glycols, and Dry Natural Gas (non 49CFR192 applications)	DR 7	333 psig	280 psig	244 psig	210 psig	187 psig	167 psig
	DR 9	250 psig	210 psig	183 psig	158 psig	141 psig	125 psig
	DR 11	200 psig	168 psig	146 psig	126 psig	112 psig	100 psig
	DR 13.5	160 psig	134 psig	117 psig	101 psig	90 psig	80 psig
	DR 17	125 psig	105 psig	91 psig	79 psig	70 psig	63 psig
	DR 21	100 psig	84 psig	73 psig	63 psig	56 psig	50 psig
2% or Greater Concentrations of Liquid Hydrocarbons or Other Solvating/Permeating Chemicals	DR 7	167 psig	140 psig	122 psig	105 psig	94 psig	84 psig
	DR 9	125 psig	105 psig	92 psig	79 psig	71 psig	63 psig
	DR 11	100 psig	84 psig	73 psig	63 psig	56 psig	50 psig
	DR 13.5	80 psig	67 psig	59 psig	51 psig	45 psig	40 psig
	DR 17	63 psig	53 psig	46 psig	40 psig	35 psig	32 psig
	DR 21	50 psig	42 psig	37 psig	32 psig	28 psig	25 psig

The above pressures are the maximum long-term pressure ratings for the applications shown. Different chemical and environmental use considerations may require use of additional design factors or additional service life considerations.

Source: Performance Pipe

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