



Product Specifications Iron Pipe Size (IPS)

Physical Properties	Nominal Value	Test Method	Physical Properties	Nominal Value	Test Method
Density	0.502 g./cc.	ASTM D1585	Tensile Stress @ Yield	> 1 500 psi	ASTM D438
Cell Char. Rate	465174%	ASTM D2039	Brittle Temp. Range	< -20°C	ASTM D746
Max. Resilience (60°C @ 1.000)	0.250 (20.0%)	ASTM D2138	Acid Resistance (5% HCl)	> 2.000%	ASTM D1473
Resilience (Modulus) (20°C Sec)	> 750 MPa	ASTM D750	Clounging @ Break	> 200%	ASTM D695
Hydrostatic Design Res. @ 23°C	1600 psi	ASTM D2837	Therm. Expansion	1.4 to 1.6 (in/in/°F)	ASTM D698
Hydrostatic Design Res. @ 60°C	1000 psi	ASTM D2837	Hardness, Shore D	65	ASTM D2240

IPS		Pressure Rating (psi)													
Size	OD (in)	379	335	319	290	200	175	138	125	100	80	64			
		Standard Dimension Ratio (SDR)													
		8.4	7	6.3	6	11	10.5	15.4	17	21	26	32.5			
3/4"	1.050"	Weight (lb/ft)	0.377	0.339	0.325	0.264	0.216	0.176	0.155	0.140	0.113				
	id" (in)	1.629	1.496	1.74	1.847	1.943	2.023	2.066	2.096	2.149					
	Weight (lb/ft)	1.032	0.948	0.915	0.766	0.642	0.534	0.470	0.431	0.363					
1"	1.315"	Weight (lb/ft)	0.456	0.411	0.394	0.319	0.261	0.213	0.185	0.169	0.137	0.111			
	id" (in)	1.962	2.054	2.087	2.236	2.352	2.449	2.504	2.537	2.601	2.654				
	Weight (lb/ft)	1.512	1.389	1.341	1.123	0.941	0.792	0.689	0.632	0.518	0.423				
1 1/4"	1.660"	Weight (lb/ft)	0.556	0.500	0.479	0.389	0.318	0.259	0.218	0.206	0.167	0.135	0.108		
	id" (in)	2.389	2.500	2.541	2.722	2.864	2.981	3.048	3.088	3.167	3.231	3.285			
	Weight (lb/ft)	2.242	2.058	1.988	1.664	1.395	1.159	1.020	0.936	0.768	0.626	0.505			
2"	2.375"	Weight (lb/ft)	0.734	0.643	0.616	0.500	0.409	0.333	0.290	0.265	0.214	0.173	0.138		
	id" (in)	3.071	3.214	3.267	3.500	3.682	3.833	3.919	3.971	4.071	4.154	4.223			
	Weight (lb/ft)	3.705	3.402	3.286	2.751	2.306	1.916	1.687	1.548	1.309	1.035	0.835			
2 1/2"	2.875"	Weight (lb/ft)	0.883	0.795	0.762	0.618	0.506	0.412	0.359	0.327	0.265	0.214	0.171		
	id" (in)	3.797	3.974	4.039	4.327	4.552	4.739	4.845	4.909	5.033	5.135	5.221			
	Weight (lb/ft)	5.663	5.200	5.022	4.204	3.523	2.928	2.578	2.366	1.939	1.582	1.277			
3"	3.500"	Weight (lb/ft)	1.052	0.946	0.908	0.736	0.602	0.491	0.427	0.390	0.315	0.255	0.204		
	id" (in)	4.522	4.732	4.810	5.153	5.420	5.644	5.770	5.846	5.994	6.115	6.217			
	Weight (lb/ft)	8.031	7.374	7.123	5.963	4.997	4.152	3.656	3.355	2.751	2.244	1.811			
4"	4.500"	Weight (lb/ft)	1.369	1.232	1.182	0.958	0.784	0.639	0.556	0.507	0.411	0.332	0.265		
	id" (in)	5.887	6.161	6.262	6.708	7.057	7.347	7.512	7.610	7.804	7.962	8.094			
	Weight (lb/ft)	13.612	12.499	12.073	10.107	8.470	7.028	6.197	5.687	4.662	3.804	3.069			
4 1/2"	5.000"	Weight (lb/ft)	1.706	1.536	1.473	1.194	0.977	0.796	0.694	0.632	0.512	0.413	0.331		
	id" (in)	7.337	7.679	7.805	8.361	8.795	9.157	9.363	9.485	9.746	9.923	10.088			
	Weight (lb/ft)	21.146	19.416	18.755	15.700	13.157	10.933	9.627	8.834	7.242	5.909	4.767			
5"	5.562"	Weight (lb/ft)	2.024	1.821	1.747	1.417	1.159	0.944	0.823	0.750	0.607	0.490	0.392		
	id" (in)	8.703	9.107	9.257	9.917	10.433	10.861	11.105	11.250	11.536	11.769	11.965			
	Weight (lb/ft)	29.746	27.313	26.382	22.086	18.509	15.379	13.542	12.427	10.187	8.312	6.701			
6"	6.625"	Weight (lb/ft)	2.222	2.000	1.918	1.556	1.273	1.037	0.903	0.824	0.667	0.538	0.431		
	id" (in)	9.556	10.000	10.164	10.889	11.455	11.926	12.194	12.353	12.667	12.923	13.138			
	Weight (lb/ft)	35.964	33.931	31.809	26.828	22.316	18.542	16.327	14.983	12.283	10.022	8.086			
8"	8.625"	Weight (lb/ft)	2.540	2.286	2.192	1.778	1.455	1.185	1.032	0.941	0.762	0.615	0.492		
	id" (in)	10.921	11.429	11.616	12.444	13.091	13.630	13.935	14.118	14.476	14.769	15.015			
	Weight (lb/ft)	46.843	43.011	41.546	34.780	29.147	24.218	21.325	19.570	16.043	13.090	10.561			
10"	10.750"	Weight (lb/ft)	2.857	2.571	2.466	2.000	1.636	1.333	1.161	1.059	0.857	0.692	0.554		
	id" (in)	12.286	12.857	13.068	14.000	14.727	15.333	15.677	15.882	16.286	16.615	16.892			
	Weight (lb/ft)	59.286	54.436	52.582	44.018	36.889	30.652	26.990	24.768	20.304	16.567	13.366			
12"	12.000"	Weight (lb/ft)	3.175	2.857	2.740	2.222	1.818	1.481	1.290	1.176	0.952	0.769	0.615		
	id" (in)	13.651	14.286	14.521	15.556	16.364	17.037	17.419	17.647	18.095	18.462	18.769			
	Weight (lb/ft)	73.192	67.205	64.916	54.344	45.542	37.841	33.321	30.178	25.067	20.453	16.502			
14"	14.000"	Weight (lb/ft)	3.492	3.143	3.014	2.444	2.000	1.630	1.419	1.294	1.048	0.846	0.677		
	id" (in)	15.016	15.714	15.973	17.111	18.000	18.741	19.161	19.412	19.905	20.308	20.646			
	Weight (lb/ft)	88.562	81.319	78.549	65.756	55.106	45.788	40.318	36.999	30.331	24.749	19.967			
16"	16.000"	Weight (lb/ft)	3.810	3.429	3.288	2.667	2.182	1.778	1.548	1.412	1.143	0.923	0.738		
	id" (in)	16.381	17.143	17.425	18.667	19.636	20.444	20.903	21.176	21.714	22.154	22.523			
	Weight (lb/ft)	105.397	96.736	93.479	78.255	65.581	54.493	47.892	44.032	36.096	29.453	23.763			

Note: Inside Diameter is based on nominal values and may vary due to manufacturing tolerances.
 The above pressure ratings are based on a Hydrostatic Design Basis of 1,600 psi @ 73°F (23°C) and 1,000 psi @ 140°F (60°C) per ASTM D2837
 Cell Classification P9459574C per ASTM D2835



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