



# Abrasion Resistance Solution for Mining, Slurry and Dredging Applications

## +30% Abrasion Resistance

Increased wear and tear compared to equivalent HDPE Pipe Size and DR per ASTM G-75 testing results

## +30% Increased Flexibility

Tendency of pipe material to resist bending is valued at 90,000 psi vs 120,000 psi per ASTM D790

## Same Fusion, Same Machine

No change to fusion procedure per ASTM F2620 and equipment/tools used to join pipe and fittings

## 4X Stress Crack Resistance

Pipe notch testing to simulate slow crack growth scenario per ASTM F1473 is valued at 2,000 hrs vs 500 hrs for HDPE

## MDPE = Less Weight, More Economical

2% Less Weight per volume of material based on ASTM D1505 Density calculations of 0.942 g/cc vs 0.960 g/cc

## Smooth Sweeping Bends

Increased wear and tear on piping system with inclusion of seamless pipe arc bends vs mitered fittings

Please Contact for Additional Technical Information or Tailored Presentation

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# High Abrasion Resistance Pipe Sizing Availability

## MDPE - PE 2708

Pressure Rating		100 psi DR 17.0			80 psi DR 21.0			64 psi DR 26.0			50 psi DR 32.5			Nominal Pipe Size
Nominal Pipe Size	IPS OD (in)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	
2"	2.375	0.140	2.079	0.42	0.113	2.135	0.35							2"
3"	3.500	0.206	3.064	0.92	0.167	3.147	0.75							3"
4"	4.500	0.265	3.939	1.52	0.214	4.046	1.25	0.173	4.133	1.02	0.138	4.206	0.82	4"
6"	6.625	0.390	5.799	3.29	0.315	5.956	2.70	0.255	6.085	2.20	0.204	6.193	1.78	6"
8"	8.625	0.507	7.549	5.58	0.411	7.754	4.57	0.332	7.922	3.73	0.265	8.062	3.01	8"
10"	10.750	0.632	9.409	8.67	0.512	9.665	7.11	0.413	9.873	5.80	0.331	10.049	4.68	10"
12"	12.750	0.750	11.160	12.19	0.607	11.463	10.00	0.490	11.710	8.16	0.392	11.918	6.58	12"
14"	14.000	0.824	12.254	14.70	0.667	12.587	12.05	0.538	12.858	9.83	0.431	13.087	7.93	14"
16"	16.000	0.941	14.005	19.20	0.762	14.385	15.74	0.615	14.695	12.84	0.492	14.956	10.36	16"
18"	18.000	1.059	15.755	24.30	0.857	16.183	19.92	0.692	16.532	16.26	0.554	16.826	13.12	18"
20"	20.000	1.176	17.506	30.00	0.952	17.981	24.60	0.769	18.369	20.07	0.615	18.695	16.19	20"
22"	22.000	1.294	19.256	36.30	1.048	19.779	29.76	0.846	20.206	24.28	0.677	20.565	19.59	22"
24"	24.000	1.412	21.007	43.21	1.143	21.577	35.42	0.923	22.043	28.90	0.738	22.434	23.32	24"
26"	26.000	1.529	22.758	50.71	1.238	23.375	41.57	1.000	23.880	33.92	0.800	24.304	27.36	26"
28"	28.000	1.647	24.508	58.81	1.333	25.173	48.21	1.077	25.717	39.34	0.862	26.174	31.74	28"
30"	30.000	1.765	26.259	67.51	1.429	26.971	55.34	1.154	27.554	45.16	0.923	28.043	36.43	30"
32"	32.000	1.882	28.009	76.81	1.524	28.770	62.97	1.231	29.391	51.38	0.985	29.913	41.45	32"
34"	34.000	2.000	29.760	86.71	1.619	30.568	71.08	1.308	31.228	58.00	1.046	31.782	46.79	34"
36"	36.000	2.118	31.511	97.21	1.714	32.366	79.69	1.385	33.065	65.02	1.108	33.652	52.46	36"
42"	42.000				2.000	37.760	108.47	1.615	38.575	88.51	1.292	39.260	71.41	42"
48"	48.000							1.846	44.086	115.60	1.477	44.869	93.27	48"
54"	54.000							2.077	49.597	146.30	1.662	50.478	118.04	54"

Source: Performance Pipe

Pressure Rating		267 psi DR 7.0			200 psi DR 9.0			160 psi DR 11.0			125 psi DR 13.5			Nominal Pipe Size
Nominal Pipe Size	IPS OD (in)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	Minimum Wall (in)	Average ID (in)	Weight (lbs/ft)	
2"	2.375	0.339	1.656	0.93	0.264	1.816	0.75	0.216	1.917	0.63	0.176	2.002	0.52	2"
3"	3.500	0.500	2.440	2.02	0.389	2.676	1.63	0.318	2.825	1.37	0.259	2.950	1.14	3"
4"	4.500	0.643	3.137	3.34	0.500	3.440	2.70	0.409	3.633	2.26	0.333	3.793	1.88	4"
6"	6.625	0.946	4.619	7.24	0.736	5.064	5.85	0.602	5.348	4.90	0.491	5.585	4.07	6"
8"	8.625	1.232	6.013	12.26	0.958	6.593	9.92	0.784	6.963	8.31	0.639	7.271	6.91	8"
10"	10.750	1.536	7.494	19.05	1.194	8.218	15.41	0.977	8.678	12.91	0.796	9.062	10.73	10"
12"	12.750	1.821	8.889	26.80	1.417	9.747	21.67	1.159	10.293	18.16	0.944	10.748	15.09	12"
14"	14.000	2.000	9.760	32.31	1.556	10.702	26.13	1.273	11.302	21.90	1.037	11.801	18.19	14"
16"	16.000				1.778	12.231	34.13	1.455	12.916	28.60	1.185	13.487	23.76	16"
18"	18.000				2.000	13.760	43.19	1.636	14.531	36.20	1.333	15.173	30.08	18"
20"	20.000							1.818	16.145	44.69	1.481	16.859	37.13	20"
22"	22.000							2.000	17.760	54.07	1.630	18.545	44.93	22"
24"	24.000										1.778	20.231	53.47	24"
26"	26.000										1.926	21.917	62.75	26"
28"	28.000										2.074	23.603	72.78	28"
30"	30.000													30"
32"	32.000													32"
34"	34.000													34"
36"	36.000													36"
42"	42.000													42"
48"	48.000													48"
54"	54.000													54"

Source: Performance Pipe

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