



ATLANTA INDUSTRIES, INC.

ATLANTA HDPE PIPES & FITTINGS

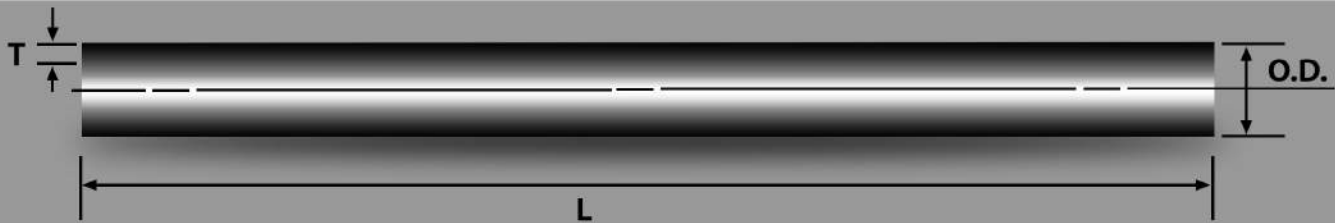
High Density Polyethylene Pipes & Fittings



◀ Quality Assured Product ▶



ATLANTA HDPE PRESSURE PIPE



APPLICATION	:	Potable Water Main Distribution and Service Connection System & Industrial Application
STANDARD	:	Conforming to ISO R 161/1 /ISO 3607 Series, SDR PR based on controlled Outside Diameter and in accordance to PNS ISO 4427-2002
SIZES	:	20mm to 630mm
MATERIAL	:	PE 80 / PE 100
JOINT METHOD	:	Butt Fusion, Flange Type, Compression Type, Electrofusion, Socket Fusion

NOMINAL SIZE	OUTSIDE DIAMETER	STANDARD LENGTH	SDR 9		SDR 11		SDR 13.6		SDR 17		SDR 21	
			PE 80	PE 100	PE 80	PE 100	PE 80	PE 100	PE 80	PE 100	PE 80	PE 100
			NOMINAL PRESSURE (PSI)									
			232	-	181.25	232	145	181.25	116	145	87	-
(IN)	(MM)	(M)	T (mm)		T (mm)		T (mm)		T (mm)		T (mm)	
1/2	20	300	2.22		*1.8		*1.6					
3/4	25	150	2.78		2.3		1.85					
1	32	100	3.56		2.91		2.37		1.88			
1-1/4	40	60	4.44		3.64		2.96		2.35		2.30	
1-1/2	50	60	5.56		4.55		3.70		2.94		2.40	
2	63	60	7.00		5.73		4.46		3.71		3.00	
2-1/2	75	60	8.33		6.81		5.55		4.41		3.60	
3	90	6	10.00		8.18		6.67		5.29		4.30	
4	110	6	12.22		10.00		8.16		6.47		5.30	
6	160	6	17.78		12.22		11.85		9.41		7.70	
8	225	6	25.00		17.78		16.67		13.25		10.80	
10	280	6	31.11		25.00		20.75		16.47		13.40	
12	315	6	35.00		31.11		23.33		18.53		15.00	
14	355	6	39.44		35.00		26.30		20.88		16.90	
16	400	6	44.44		39.44		29.63		23.53		19.10	
18	450	6	50.00		44.44		33.33		26.47		21.50	
20	500	6	55.56		50.00		37.04		29.41		23.90	
22	560	6	62.22		55.56		41.48		32.94		26.67	
24	630	6	70.00		62.22		46.67		37.06		30.00	

Based on SDR

ADVANTAGES

Atlanta HDPE pipe offers a number of engineering advantages over conventional piping materials.

• Ease of Handling

Atlanta HDPE pipe weighs considerably less than pipes made from conventional materials. Typically, it is only 1/4 to 1/10 the weight of cast iron, steel or concrete pipes used for the same service. This affords significant savings in transportation and installation by reducing manpower and equipment needs to a minimum.

• High Chemical Resistance

Atlanta HDPE pipe has replaced steel, stainless steel, cast iron and concrete piping where chemical or corrosion resistance is required. It is resistant to attack by acids, bases, salts and many hydrocarbon materials. In addition, even the most aggressive soil will not corrode Atlanta HDPE piping.

• Safe for Potable Water and Other Fluids

Because Atlanta HDPE Piping does not contaminate fluid with metallic ions, it is often used in the transport of pure materials, including deionized water. Atlanta HDPE piping materials also meet with the approval of the Bureau of Product Standards for the transport of potable water.

• Flexibility

Atlanta HDPE pipe is flexible, providing ease of installation. It can be curved, snaked, inserted or laid along natural ground contours, thereby reducing installation costs and equipment requirements.

• Abrasion Resistance

Atlanta HDPE pipe has smooth, tough interior surfaces which make it an excellent material for conveying a variety of abrasive slurries.

• Lowest Flow Resistance

The smooth interior of this pipe provides for higher flow design factors. The Hazen - Williams water flow coefficient for Atlanta HDPE pipe is 150 to 155, and the Manning "n" value is approximately 0.009. Resistance to scaling and corrosion allows the pipe to maintain its excellent flow properties throughout service life.

• Tight Joints

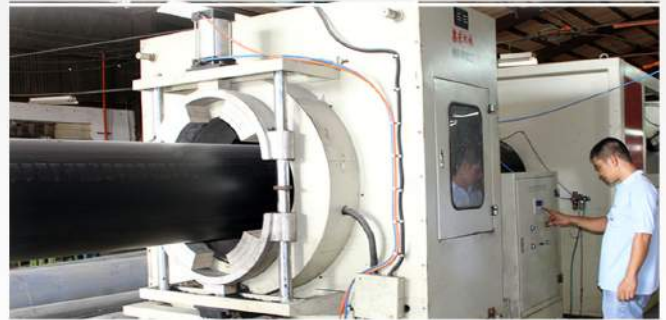
A choice of jointing systems is available depending upon the application and the size of the Atlanta HDPE pipe. These include butt fusion, electrofusion, socket fusion, extrusion welding, mechanical connectors and compression type fittings.

PHYSICAL PROPERTIES OF ATLANTA HDPE

PROPERTY	ASTM TEST	VALUE
Density, GMS/CC	D 1505	0.955
Melt Flow (Condition F), MS/10 Min.	D 1238	1.5
Environmental Stress Cracking Resistance, (Hrs.) Condition A, B & C	D 1693	> 1500 No Failures
Tensile Strength, Yield, PSI 20 In./Min. 2 In./Min.	D 638 Die IV	4800 3200
Elongation, % 2 In./Min.		> 600
Impact Strength, Ft. Lbs./In. Notch, Specimen Thickness 0.250 Inch 0.125 Inch	D 256	7 12
Vicat Softening Temperature, °F	D 1525	257
Brittleness Temperature, °F	D 746	180
Thermal Conductivity, BTU, In./Ft./Hrs. °F	C 177	3.7
Flexural Modulus, PSI	D 790	140M
Modulus of Elasticity, PSI	D 638	100M
Hardness, Shore D	D 2240	65
Coefficient of Linear Thermal expansion In./In./°F	D 696	1.2 x 10 ⁻⁴

WORKING PRESSURE

SDR	Nominal pressure, PSI (Bars) for Material class	
	PE 80	PE 100
21	-	116 (8)
17	116 (8)	145 (10)
13.6	245 (10)	181 (12.5)
11	181.25 (12.5)	232 (16)
9	232 (16)	290 (20)



INJECTION MOULDED BUTT FUSION SERIES

COUPLING REDUCER	SIZES							
	63 x 32	160 x 90	315 x 225	450 x 110	500 x 110	560 x 225	630 x 225	630 x 560
	90 x 50	160 x 110	315 x 280	450 x 160	500 x 160	560 x 355	630 x 280	
	90 x 63	225 x 63	400 x 110	450 x 225	500 x 280	560 x 400	630 x 315	
	90 x 75	225 x 160	400 x 160	450 x 315	500 x 315	560 x 450	630 x 355	
	110 x 50	280 x 110	400 x 225	450 x 355	500 x 355	560 x 500	630 x 400	
	110 x 63	280 x 160	400 x 315	450 x 400	500 x 450	630 x 110	630 x 450	
	110 x 90	315 x 160	400 x 355	500 x 110	560 x 110	630 x 160	630 x 500	

ELBOW 22.5°	SIZES	
	75	355
	90	400
	110	450
	160	
	225	
	280	
	315	

ELBOW 45°	SIZES	
	75	355
	90	400
	110	450
	160	
	225	
	280	
	315	

ELBOW 90°	SIZES		
	75	315(SDR11)	450(SDR21)
	90	315(SDR13.6)	500(SDR17)
	110	315(SDR17)	500(SDR21)
	160	315(SDR21)	560(SDR17)
	225	400(SDR17)	560(SDR21)
	280	400(SDR21)	630(SDR17)
	315	450(SDR17)	630(SDR21)

TEE	SIZES	
	63	315
	75	400
	90	
	110	
	160	
	280	
	225	

TEE REDUCER	SIZES	
	75 x 63	160 x 110
	90 x 32	225 x 63
	90 x 40	225 x 75
	90 x 50	225 x 90
	90 x 63	225 x 110
	90 x 75	225 x 160
	110 x 50	315 x 110
	110 x 63	315 x 160
	110 x 90	400 x 315
	160 x 63	400 x 160
	160 x 75	400 x 110
	160 x 90	

FLANGE PLATE	SIZES	
	50	500
	63	560
	75	630
	90	
	110	
	160	
	225	
	280	
	315	
	355	
	400	
	450	

STUB END	SIZES	
	90	400(SDR21)
	110	400(SDR21)
	160	450(SDR17)
	225(SDR11)	450(SDR21)
	225(SDR17)	500(SDR17)
	280(SDR11)	500(SDR21)
	280(SDR17)	560(SDR17)
	315(SDR11)	560(SDR21)
	315(SDR17)	630(SDR17)
	355(SDR17)	
	355(SDR21)	
	400(SDR17)	

HDPE SADDLE AND REPAIR KIT

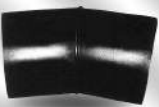
WATER DISTRIBUTION BUTT WELDED DEVICE	SIZES(mm)
	63 x 25 x 2"
	63 x 25 x 3"
	63 x 25 x 4"
	63 x 25 x 5"

SADDLE CLAMP W/ FLANGE CONNECTOR	SIZES(mm)
	280 x 3"
	315 x 3"
	315 x 4"
	400 x 3"
	400 x 4"

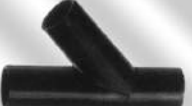
SADDLE CLAMP W/ BRASS INSERT CONNECTOR	SIZES(mm)
	90 x 2"
	110 x 2"
	160 x 2"
	225 x 2"
	315 x 2"

HDPE REPAIR KIT	SIZES(mm)	
	63	225
	75	280
	90	315
	110	355
	160	400

FABRICATED BUTT FUSION SERIES

FABRICATED ELBOW 22.5°	SIZES(mm)	
	90	355
	110	400
	160	450
	225	500
	280	560
	315	630

FABRICATED ELBOW 90°	SIZES(mm)	
	90	355
	110	400
	160	450
	225	500
	280	560
	315	630

FABRICATED WYE	SIZES(mm)	
	90	355
	110	400
	160	450
	225	500
	280	560
	315	630

FABRICATED TEE REDUCER	SIZES(mm)	
	110 x 90	315 x 225
	110 x 75	315 x 280
	160 x 110	355 x 280
	225 x 160	355 x 315
	280 x 160	400 x 315
	280 x 225	400 x 355

FABRICATED ELBOW 45°	SIZES(mm)	
	90	355
	110	400
	160	450
	225	500
	280	560
	315	630

FABRICATED TEE	SIZES(mm)	
	90	355
	110	400
	160	450
	225	500
	280	560
	315	630

FABRICATED CROSS TEE REDUCER	SIZES(mm)	
	110 x 75	315 x 225
	110 x 90	315 x 280
	160 x 110	355 x 280
	225 x 160	355 x 315
	280 x 160	400 x 315
	280 x 225	400 x 355

FABRICATED CROSS TEE	SIZES(mm)	
	90	355
	110	400
	160	450
	225	500
	280	560
	315	630

FABRICATED ELBOW 60°	SIZES(mm)		
	20	75	315
	25	90	355
	32	110	400
	40	160	
	50	225	
	63	280	

FABRICATED STUB FLANGE	SIZES(mm)	
	63	280
	75	315
	90	355
	110	400
	160	
	225	

FABRICATED ENDCAP	SIZES(mm)			
	20	75	315	630
	25	90	355	
	32	110	400	
	40	160	450	
	50	225	500	
	63	280	560	

INJECTION MOULDED ELECTRO FUSION SERIES

COUPLER	SIZES(mm)	
	20	75
	25	90
	32	110
	40	160
	50	225
	63	280

REDUCER	SIZES(mm)	
	20	75
	25	90
	32	110
	40	160
	50	225
	63	280

TEE REDUCER	SIZES(mm)					
	25 x 20	50 x 25	63 x 50	90 x 40	110 x 50	160 x 90
	32 x 20	50 x 32	75 x 32	90 x 50	110 x 63	160 x 110
	32 x 50	50 x 40	75 x 40	90 x 63	110 x 75	
	40 x 20	63 x 25	75 x 50	90 x 75	110 x 90	
	40 x 25	63 x 32	75 x 63	110 x 32	160 x 63	
	40 x 32	63 x 40	90 x 32	110 x 40	160 x 75	

ELBOW 90°	SIZES(mm)	
	20	75
	25	90
	32	110
	40	160
	50	225
	63	280

REPAIR SADDLE	SIZES(mm)	
	90	
	110	
	160	
	225	
	280	

ELBOW 45°	SIZES(mm)	
	20	75
	25	90
	32	110
	40	160
	50	225
	63	280

TEE	SIZES(mm)	
	20	75
	25	90
	32	110
	40	160
	50	
	63	

SADDLE	SIZES(mm)	
	90 x 63	
	110 x 63	
	160 x 90	
	225 x 63	
	225 x 90	

PP COMPRESSION SERIES

COUPLING	SIZES(mm)	
	20	75
	25	90
	32	110
	40	
	50	
	63	

TEE 90°	SIZES(mm)	
	20	75
	25	90
	32	110
	40	
	50	
	63	

ELBOW 90°	SIZES(mm)	
	20	75
	25	90
	32	110
	40	
	50	
	63	

END PLUG	SIZES(mm)	
	20	75
	25	90
	32	110
	40	
	50	
	63	

REDUCER COUPLING	SIZES(mm)		
	25 x 1/2"	50 x 1"	90 x 2"
	32 x 1/2"	50 x 1 1/4"	90 x 2 1/2"
	32 x 3/4"	63 x 1"	110 x 3"
	40 x 3/4"	63 x 1 1/4"	
	40 x 1"	63 x 1 1/2"	
	50 x 3/4"	75 x 2"	

REDUCER TEE	SIZES(mm)		
	25 x 1/2"	50 x 1"	
	32 x 1/2"	50 x 1 1/4"	
	32 x 3/4"	63 x 1"	
	40 x 3/4"	63 x 1 1/4"	
	40 x 1"	63 x 1 1/2"	
	50 x 3/4"		

FEMALE ADAPTOR	SIZES(mm)	
	20 x 1/2"	75 x 2 1/2"
	20 x 3/4"	90 x 3"
	20 x 1"	
	40 x 1 1/4"	
	50 x 1 1/2"	
	63 x 2"	

MALE ADAPTOR	SIZES(mm)	
	20 x 1/2"	75 x 2 1/2"
	20 x 3/4"	90 x 3"
	32 x 1"	110 x 4"
	40 x 1 1/4"	
	50 x 1 1/2"	
	63 x 2"	

FEMALE ADAPTOR	SIZES(mm)	
	20 x 1/2"	75 x 2 1/2"
	20 x 3/4"	90 x 3"
	20 x 1"	
	40 x 1 1/4"	
	50 x 1 1/2"	
	63 x 2"	

FLANGE ADAPTOR	SIZES(mm)	
	40 x 1 1/2"	90 x 3"
	50 x 1 1/2"	90 x 4"
	63 x 2"	110 x 4"
	63 x 2 1/2"	
	75 x 2 1/2"	
	75 x 3"	

FLANGE ADAPTOR	SIZES(mm)			
	50 x 1/2"	90 x 1/2"	110 x 1"	160 x 1 1/4"
	63 x 1/2"	90 x 3/4"	110 x 1 1/4"	160 x 2"
	63 x 3/4"	90 x 1"	110 x 2"	225 x 3/4"
	63 x 1"	90 x 1 1/4"	160 x 1/2"	225 x 1"
	75 x 1/2"	110 x 1/2"	160 x 3/4"	225 x 2"
	75 x 3/4"	110 x 3/4"	160 x 1"	

BALL VALVE	SIZES(mm)	
	1/2"	2 1/2"
	3/4"	3"
	1"	4"
	1 1/4"	
	1 1/2"	
	2"	

RITMO HDPE BUTT FUSION MACHINE & ACCESORIES

BASIC 160		
	MATERIALS	HDPE, PB, PP, PVDF
	WORKING RANGE	50 - 160mm
	POWER SUPPLY	220V
	SINGLE PHASE	50/60 Hz
	TOTAL ABSORBED POWER	1850 W / 1900W
	WORKING TEMPERATURE	180° - 280° C
	PRESSURE WORKING RANGE	0 - 150 bar
	WEIGHT ONLY BODY MACHINES	30 kg.

BASIC 200		
	MATERIALS	HDPE, PB, PP, PVDF
	WORKING RANGE	63 - 200mm
	POWER SUPPLY	220V
	SINGLE PHASE	50/60 Hz
	TOTAL ABSORBED POWER	3000 W
	WORKING TEMPERATURE	180° - 280° C
	PRESSURE WORKING RANGE	0 - 150 bar
	WEIGHT ONLY BODY MACHINES	35 kg.

BASIC 250		
	MATERIALS	HDPE, PB, PP, PVDF
	WORKING RANGE	75 - 250mm
	POWER SUPPLY	230 VAC
	SINGLE PHASE	50/60 Hz
	TOTAL ABSORBED POWER	3500 W
	WORKING TEMPERATURE	180° - 280° C
	PRESSURE WORKING RANGE	0 - 150 bar
	WEIGHT ONLY BODY MACHINES	63 kg.

BASIC 315		
	MATERIALS	HDPE, PB, PP, PVDF
	WORKING RANGE	90 - 315mm
	POWER SUPPLY	230 VAC
	SINGLE PHASE	50/60 Hz
	TOTAL ABSORBED POWER	4500 W
	WORKING TEMPERATURE	180° - 280° C
	PRESSURE WORKING RANGE	0 - 150 bar
	WEIGHT ONLY BODY MACHINES	86 kg.

BASIC 355		
	MATERIALS	HDPE, PB, PP, PVDF
	WORKING RANGE	125 - 355mm
	POWER SUPPLY	230 VAC
	SINGLE PHASE	50/60 Hz
	TOTAL ABSORBED POWER	5800 W
	WORKING TEMPERATURE	180° - 280° C
	PRESSURE WORKING RANGE	0 - 150 bar
	WEIGHT ONLY BODY MACHINES	150 kg.

HDPE BUTT FUSION MACHINE & ACCESSORIES

BFM2160 (BFM2200)	
	MATERIALS
	HDPE, PB, PP, PVDF
	WORKING RANGE
	50 - 160mm (63 - 200mm)
	HEATING PLATE MAX TEMP
	270 °C
	TEMP DEVIATION FROM SURFACE
	<+/-5 °C
	WORKING VOLTAGE
	220V, 60Hz
	HEATING PLATE POWER
	1.5 Kw
	PLANNING TOOL, POWER
	0.7 Kw
	TOTAL POWER
	2.2 Kw
	CONFORMS
	ISO12176-1:2012 STANDARD
	TYPE
	MANUAL
	NO. OF CLAMP
	2
	WEIGHT APPROX
	46Kgs / 66Kgs

BFM4160 (BFM4200)	
	MATERIALS
	HDPE, PB, PP, PVDF
	WORKING RANGE
	50 - 160mm (63 - 200mm)
	HEATING PLATE MAX TEMP
	270 °C
	TEMP DEVIATION FROM SURFACE
	<+/-5 °C
	WORKING VOLTAGE
	220V, 60Hz
	HEATING PLATE POWER
	1.5 Kw
	PLANNING TOOL, POWER
	0.7 Kw
	TOTAL POWER
	2.2 Kw
	CONFORMS
	ISO12176-1:2012 STANDARD
	TYPE
	MANUAL
	NO. OF CLAMP
	4
	WEIGHT APPROX
	48Kgs / 68Kgs

BFRA4160 (BFRA4200)	
	MATERIALS
	HDPE, PB, PP, PVDF
	WORKING RANGE
	50 - 160mm (63 - 200mm)
	HEATING PLATE MAX TEMP
	270 °C
	TEMP DEVIATION FROM SURFACE
	<+/-5 °C
	WORKING VOLTAGE
	220V, 60Hz
	HEATING PLATE POWER
	1.5 Kw
	PLANNING TOOL, POWER
	0.7 Kw
	TOTAL POWER
	2.2 Kw
	CONFORMS
	ISO12176-1:2012 STANDARD
	TYPE
	ROTARY ADJUSTER
	NO. OF CLAMP
	4
	WEIGHT APPROX
	48Kgs / 68Kgs

HDPE ELECTROFUSION MACHINE & ACCESSORIES

	INPUT VOLTAGE	220 V 50/60
	OUTPUT VOLTAGE	8 - 44 V
	ISO STANDARD BARCODE	24: FUSION
		30: OPERATOR
		32: FITTING & PIPE
	POWER	3200 VA/90 A
	WORKING TEMPERATURE	-10 C →+45 C
	PROTECTION GRADE	IP 54
	DIMENSION (L x W x H)	280 x 180 x 280
	WEIGHT	18

PROJECT PHOTOS



BUTT FUSION JOINTING TECHNIQUE



1. Wipe pipe ends inside and to remove dirt, oil, grease and other foreign materials.

2. Square the end of each pipe section to be fused by using the facing tool of the fusion machine. Remove cuttings and burrs from pipe ends.

3. Check the line-up of pipe ends in the fusion machine to see that the pipe ends meet squarely and completely over the entire surface to be fused.

4. Insert the heater plate between the aligned pipe ends. Bring and hold the pipe ends in contact with the heater plate. Maintain contact and allow the pipe to heat and soften.

5. Remove heater plate from pipe end. Bring the heated pipe ends together with a firm pressure. Pressure is necessary to cause the heated material to flow together, thus giving a fusion bead flash around the entire circumference of the pipe.

6. Allow the joint to cool and solidify until the bead feels hard. Inspect the joint for a uniform non-porous appearance. If the joints appear faulty, simply cut the joints and repeat the procedure.

CHEMICAL RESISTANCE

REAGENT	70°F (21°C)	140°F (60°C)	REAGENT	70°F (21°C)	140°F (60°C)	REAGENT	70°F (21°C)	140°F (60°C)
Acetic Acid* 1-10%	S	S	Calcium Hydroxide	S	S	Ethyl Alcohol* 35%	S	S
Acetic Acid* 10-60%	S	M	Calcium Hypochlorite Bich Sol.	S	S	Ethyl Butyrate	S	U
Acetic Acid* 80-100%	S	M	Calcium Nitrate 50%	S	S	Ethyl Chloride	M	U
Acetone	M	U	Calcium Sulfate	S	S	Ethyl Ether	U	U
Acrylic Emulsions*	S	S	Camphor Oil	N	U	Ethylene Chloride	U	U
Aluminum Chloride-Dilute	S	S						
Aluminum Chloride Conc.	S	S	Carbon Dioxide 100% Dry	S	S	Ethylene Chlorohydrin	U	U
Aluminum Fluoride Conc.	S	S	Carbon Dioxide 100% Wet	S	S	Ethylene Dichloride	M	U
Aluminum Sulfate Conc.	S	S	Carbon Dioxide Cold Sat'd	S	S	Ethylene Glycol*	S	S
Alums (All Types) Conc.	S	S	Carbon Disulphide	N	U	Ferric Chloride Sat'd	S	S
Ammonia 100% Dry Gas	S	S	Carbon Monoxide	S	S	Ferric Nitrate Sat'd	S	S
Ammonium Carbonate	S	S	Carbon Tetrachloride	M	U	Ferrous Chloride Sat'd	S	S
Ammonium Chloride Sat'd	S	S	Carbonic Acid	S	S	Ferrous Sulphate	S	S
Ammonium Fluoride 20%	S	S	Castor Oil* Conc.	S	S	Fish Solubles*	S	S
Ammonium Hydroxide 0.888 S.Q.	S	S	Chloride Dry Gas 100%	S	M	Fluboric Acid	S	S
Ammonium Metaphosphate Sat'd	S	S	Chloride Moist Gas	M	U	Flourine	S	U
Ammonium Nitrate Sat'd	S	S	Chloride Liquid	M	U	Fluosilicic Acid 32%	S	S
Ammonium Ferrous Sulfate Sat'd	S	S	Chlorobenzene	M	U	Fluosilicic Acid Conc.	S	S
Ammonium Sulfate Sat'd	S	S	Chloroform	M	U	Formaldehyde* 40%	S	N
Ammonium Sulfide Sat'd	S	S	Chlorosulfonic Acid 100%	M	U	Formic Acid* 0-20%	S	S
Ammonium Thiocyanate Sat'd	S	S	Chrome Alum Sat'd	S	S	Formic Acid* 20-50%	S	S
Amyl Acetate	M	U	Chromic Acid 20%	S	S	Formic Acid* 100%	S	S
Amyl Alcohol* 100%	S	S	Chromic Acid Up to 50%	S	S	Fructose Sat'd	S	S
Amyl Chloride 100%	N	U	Chromic Acid and Sulfuric Acid	M	U	Fruit Pulp	S	S
Aniline 100%	S	N	Cider*	M	U	Fuel Oil	S	U
Antimony Chloride	S	S	Citric Acid* Sat'd	S	S	Furfural 100%	M	U
Aqua Regia	U	U	Coconut Oil Alcohols*	S	S	Furfuryl Alcohol	M	U
Barium Carbonate Sat'd	S	S	Cola Concentrates*	S	S	Gallic Acid* Sat'd	S	S
Barium Chloride	S	S	Copper Chloride Sat'd	S	S	Gasoline	M	U
Barium Hydroxide	S	S	Copper Cyanide Sat'd	S	S	Gin	S	U
Barium Sulfate Sat'd	S	S	Copper Fluoride 2%	S	S	Glucose	S	S
Barium Sulfide Sat'd	S	S	Copper Nitrate Sat'd	S	S	Glycerine*	S	S
Beer	S	S	Copper Sulfate Dilute	S	S	Glycol*	S	S
Benzine	M	U	Copper Sulfate Sat'd	S	S	Glycolic Acid* 30%	S	S
Benzene Sulfonic Acid*	S	S	Cottonseed Oil*	S	S	Grape Sugar Sat'd Aq.	S	S
Bismuth Carbonate Sat'd	S	S	Cuprous Chloride Sat'd	S	S	Hexanol, Tert.*	S	S
Bleach Lye 10% Black Liquor	S	S	Cychohexanol"	S	S	Hydrobromic Acid 50%	S	S
Borax Cold Sat'd	S	S	Cyclohexanone*	M	U	Hydrocyanic Acid Sat'd	S	S
Boric Acid Dilute	S	S	Detergents Synthetic *	S	S	Hydrochloric Acid 10%	S	S
Boric Acid Conc.	S	S	Developers, Photographic	S	S	Hydrochloric Acid 30%	S	S
			Dextrin Sat'd	S	S	Hydrochloric Acid 35%	S	S
			Dextrose Sat'd	S	S			
Bromic Acid 10%	S	S				Hydrochloric Acid Conc.	S	S
Bromine Liquid 100%	S	U	Dibutylphthalate	S	M	Hydrofluoric Acid 40%	S	S
Butanediol* 10%	M	S	Disodium Phosphate	S	S	Hydrofluoric Acid 60%	S	S
Butanediol* 60%	S	S	Diazo Salts	S	S	Hydrofluoric Acid 75%	S	S
Butanediol* 100%	S	S	Diethylene Glycol*	S	S	Hydrogen 100%	S	S
Butyl Alcohol* 100%	S	S	Diglycolic Acid*	S	S	HydrogenBromide 10%	S	S
Calcium Bisulfide	S	S	Dimethylamine	M	U	Hydrogen Chloride Gas Dry	S	S
Calcium Carbonate Sat'd	S	S	Emulsions, Photographic*	S	S	Hydrogen Peroxide 30%	S	S
Calcium Chlorate Sat'd	S	S	Ethyl Acetate 100%	M	U	Hydrogen Peroxide 90%	S	M
Calcium Chloride Sat'd	S	S	Ethyl Alcohol* 100%	S	S	Hydrogen Phosphide 100%	S	S

S - SATISFACTORY
U - UNSATISFACTORY
M - MARGINAL
N - NOT KNOWN

Some reagents are marked with an asterisk (*). Although Atlanta HDPE Pipe is chemically resistant to these agents, excess temperatures and pressures can under certain conditions, lead to stress cracking. On reagents marked marginal, chemical attacks will be recognized by a loss of physical properties of the pipe.

CHEMICAL RESISTANCE

REAGENT	70°F (21°C)	140°F (60°C)	REAGENT	70°F (21°C)	140°F (60°C)	REAGENT	70°F (21°C)	140°F (60°C)
Hydroquinone	S	S	Pickling Baths			Sodium Borate	S	S
Hydrogen Sulfide	S	S	Sulfuric Acid*	S	S	Sodium Bromide Dilute Sol.	S	S
Hypochlorous Acid Conc.	S	S	Hydrochloric Acid*	S	S	Sodium Carbonate Con.	S	S
Inks*	S	S	Sulfuric- Nitric*	S	U	Sodium Carbonate	S	S
Iodine (Alc. Sol.) Conc.	S	U				Sodium Chlorate Sat'd	S	S
			Plating Solutions					
Lactic Acid, 10%	S	S	Brass.	S	S	Sodium Chloride Sat'd	S	S
Lactic Acid, 90%	S	S	Cadmium*	S	S	Sodium Cyanide	S	S
Latex.	S	S	Chromium*	N	N	Sodium Dichromate Sat.	S	S
Lead Acetate Sat'd	S	S	Copper*	S	S	Sodium Ferricyanide	S	S
Lube Oil	S	M	Gold*	S	S	Sodium Ferrocyanide Sat'd	S	S
Magnesium Carbonate Sat'd	S	S	Indium*	S	S	Sodium Flouride Sat'd	S	S
Magnesium Chloride Sat'd	S	S	Lead*	S	S	Sodium Hydroxide Conc.	S	S
Magnesium Hydroxide Sat'd	S	S	Nickel*	S	S	Sodium Hypochlorite	S	S
Magnesium Nitrate Sat'd	S	S	Rhodium*	S	S	Sodium Nitrate	S	S
Magnesium Sulphate Sat'd	S	S	Silver*			Sodium Sulfate	S	S
Mercuric Chloride Sat'd	S	S	Tin*	S	S	Sodium Sulfide 25%	S	S
Mercuric Cyanide Sat'd	S	S	Zinc*	S	S	Sodium Sulfide Sat'd Sol.	S	S
Mercurous Nitrate Sat'd	S	S	Potassium Bicarbonate Sat'd	S	S	Sodium Sulfite Sat'd	S	S
Mercury	S	S	Potassium Borate 1%	S	S	Stannous Chloride Sat, Sol.	S	S
Methyl Alcohol, 100%	S	S	Potassium Bromate 10%	S	S	Stannic Chloride Sat'd	S	S
Methyl Bromide	M	U	Potassium Bromide Sat'd	M	S	Starch Solution* Sat'd	S	S
Methyl Chloride	M	U	Potassium Carbonate	S	S	Stearic Acid, 100%	S	S
Methyl Ethyl Ketone 100%	M	U	Potassium Chlorate Sat'd	S	S	Sulfuric Acid 0-50%	N	S
Methylsulfuric Acid*	S	S	Potassium Chloride Sat'd	S	S	Sulfuric Acid 70%	S	M
Methylene Chloride 100%	M	U	Potassium Chromate 40%	S	S	Sulfuric Acid 80%	S	U
Milk	S	S	Potassium Cyanide Sat'd	S	S	Sulfuric Acid 96%	M	U
Mineral oils	S	U	Potassium Dichromate 40%	S	S	Sulfuric Acid 98%	M	U
Molasses Comm.	S	S	Potassium Ferri/	S	S	Sulfuric Acid Fuming	U	U
Nickel Chloride Sat'd	S	S	Ferro Cyanide Sat'd	S	S	Sulfurous Acid	S	S
Nickel Nitrate Conc.	S	S	Potassium Fluoride	S	S	Tallow	S	M
Nickel Sulfate Sat'd	S	S	Potassium Hydroxide 20%	S	S	Tannic Acid* 10%	S	S
Nicotine, Dilute	S	S	Potassium Hydroxide Conc.	S	S	Tanning Extracts* Comm.	S	S
Nicotinic Acid*	S	S	Potassium Nitrate Sat'd	M	S	Tartaric Acid Sat'd	N	N
Nitric Acid 0-30%	S	S	Potassium Perborate Sat.	S	S	Tetrahydrofurane	N	N
Nitric Acid 30-50.	S	M	Potassium Perchlorate 10%	S	S	Titanium Tetrachloride Sat'd	S	N
Nitric Acid 70%	S	M	Potassium Sulfate Conc.	S	S	Toluene	M	U
Nitric Acid 95-98%	U	S	Potassium Sulfide Conc.	S	S	Transformer Oil	S	M
Nitrobenzene 100%	U	U	Potassium Sulfite Conc.	S	S	Trisodium Phosphate Sat'd	S	S
Octyl Cresol	S	U	Potassium Persulfate Sat'd	S	S	Trichloroethylene	U	U
Oils and Fats	S	U	Propargyl Alcohol*	S	S	Urea, Up to 30%	S	S
Oleic Acid Conc.	S	U	Propyl Alcohol*	S	S	Urine	S	S
Oleum Conc.	U	U	Propylene Dichloride 100%	S	S	Vinegar Comm.	S	S
Orange Extract	S	S	Propylene Glycol*	S	S	Vanilla Extract*	S	S
Oxalic Acid, Dilute	S	S	Rayon Coagulating Bath*	S	S	Wetting Agents*	S	S
Oxalic Acid, Sat'd	S	S	Sea Water	S	S	Whiskey*	S	N
Ozone 100%	S	U	Selenic Acid	S	S	Wines	S	S
Perchloric Acid 10%	S	S	Shortening*	S	S	Xylene	M	U
Petroleum Ether	U	U	Silicic Acid	S	S	Yeast	S	S
Phenol 90%	U	U	Silver Nitrate Sol.	S	S	Zinc Chloride Sat'd	S	S
Phosphoric Acid Up to 30%	S	S	Soap Solution* Any Conc'n	S	S	Zinc Sulfate Sat'd	S	S
Phosphoric Acid Over 30%	S	S	Sodium Acetate Sat'd	S	S			
Phosphoric Acid 90%	S	S	Sodium Benzoate 35%	S	S			
Phosphorous (Yellow) 100%	S	N	Sodium Bicarbonate Sat'd	S	S			
Phosphorous Pentoxide 100%	S	N	Sodium Bisulfate Sat'd	S	S			
Photographic Solutions	S	S	Sodium Bisulfite Sat'd	S	S			