







ASTM A53 Grade A SRM Sch40 Black Pipe

Scope

Covers Electric Resistance Welded Grade A Pipe with nominal wall thickness as shown in Table X2.2 and Table X2.3. Pipe is suitable for welding and suitable for forming operations involving coiling, bending, and flanging.

Produced to the latest revision of ASTM A53A/A53M ASME B36.10M. Pipe is UL listed and FM approved.

Bend Test

For NPS 2" and smaller a length of pipe shall be capable of being bent cold through 90° around a cylindrical mandrel twelve times the size of the outside diameter without developing cracks or opening the weld.

Product Marking

Each length of pipe shall be legibly marked by stencil to show name or brand of manufacturer, the kind of pipe, that is, ERW Grade A or B, the Heat Number, wall thickness or schedule, and length.

All bundles will have tags indicating footage per bundle, run number, and dimensions.

Hydrostatic & Nondestructive Testing

Each length of plain end pipe shall be hydrostatically tested to the pressures described in Table X2.2 of the ASTM A53M specification.

Each pipe undergoes nondestructive electric testing.

Frequency of Tests

Tensile tests are required for 1 length of pipe from each lot (not to exceed 500 lengths per size).

Permissible Variations in Wall Thickness

The minimum wall thickness at any point shall not be more than 12.5% under the nominal wall thickness specified.

Permissible Variations in Outside Diameter

The Pipe shall not vary more than +/- 1/64" (0.016") from the standard specified.

Permissible Variations in Weight per Foot

The weight of pipe shall not vary by more than +/- 10% from the standard specified.

Pure Shield Antimicrobial Coating

Borusan Pipe USA applies our Pure Shield coating to all pipe that we manufacture. This coating is designed to inhibit the initial onset of corrosion due to microbiological bacteria.

Size	OD Min	OD Max	Wall Thickness	Weight Per Foot	Pieces Per
NPS	Inch	Inch	Inch	Lbs/Ft	Bundle
1/2"	0.824	0.856	0.109	0.85	127
3/4"	1.034	1.066	0.113	1.13	91
1"	1.299	1.331	0.133	1.68	70
1 1/4"	1.644	1.676	0.140	2.27	51
1 1/2"	1.881	1.919	0.145	2.72	44
2"	2.35	2.399	0.154	3.66	29
2 1/2"	2.846	2.904	0.203	5.8	20
3"	3.465	3.535	0.216	7.58	13

Chemical Compositon A53 Grade A			
Element	Max %		
С	0.25		
Mn	0.95		
Р	0.05		
S	0.045		
Cu	0.4		
Ni	0.4		
Cr	0.4		
Мо	0.15		
V	0.08		

Mechanical Properties A53 Grade A			
	Min		
Yield Strength	30ksi		
Tensile Strength	48ksi		
Elongation	Per ASTM A53		

Borusan Pipe

Houston Office 363 N. Sam Houston Parkway E. Ste. 500, Houston, TX 77060













ASTM Grade B SRM Sch40 Black Pipe

Scope

Covers Electric Resistance Welded Grade B Pipe with nominal wall thickness as shown in Table X2.2 and Table X2.3. Pipe is suitable for welding and suitable for forming operations involving coiling, bending, and flanging.

Produced to the latest revision of ASTM A53A/A53M ASME B36.10M. Pipe is UL listed and FM approved.

Bend Test

For NPS 2" and smaller a length of pipe shall be capable of being bent cold through 90° around a cylindrical mandrel twelve times the size of the outside diameter without developing cracks or opening the weld.

Product Marking

Each length of pipe shall be legibly marked by stencil to show name or brand of manufacturer, the kind of pipe, that is, ERW Grade A or B, the Heat Number, wall thickness or schedule, and length.

All bundles will have tags indicating footage per bundle, run number, and dimensions.

Hydrostatic & Nondestructive Testing

Hydrostatic inspection test pressures for plain-end pipe are listed in Table X 2.2 of the A53/A53M specification. Test pressures shall be maintained for a minimum of five seconds.

Nondestructive testing of the weld seam is performed on all sizes of pipe.

Frequency of Tests

Tensile tests are required for 1 length of pipe from each lot (not to exceed 500 lengths per size).

Permissible Variations in Wall Thickness

The minimum wall thickness at any point shall not be more than 12.5% under the nominal wall thickness specified.

Permissible Variations in Outside Diameter

The Pipe shall not vary more than +/- 1/64" (0.016") from the standard specified.

Permissible Variations in Weight per Foot

The weight of pipe shall not vary by more than +/- 10% from the standard specified.

Pure Shield Antimicrobial Coating

Borusan Pipe USA applies our Pure Shield coating to all pipe that we manufacture. This coating is designed to inhibit the initial onset of corrosion due to microbiological bacteria.

Size	OD Min	OD Max	Wall Thickness	Weight Per Foot	Pieces Per
NPS	Inch	Inch	Inch	Lbs/Ft	Bundle
1/2"	0.824	0.856	0.109	0.85	127
3/4"	1.034	1.066	0.113	1.13	91
1"	1.299	1.331	0.133	1.68	70
1 1/4"	1.644	1.676	0.140	2.27	51
1 1/2"	1.881	1.919	0.145	2.72	44
2"	2.35	2.399	0.154	3.66	29
2 1/2"	2.846	2.904	0.203	5.8	20
3"	3.465	3.535	0.216	7.58	13

Chemical Compositon A53 Grade B			
Element	Max %		
С	0.3		
Mn	1.2		
Р	0.05		
S	0.045		
Cu	0.4		
Ni	0.4		
Cr	0.4		
Мо	0.15		
V	0.08		

Mechanical Properties A53 Grade B		
	Min	
Yield Strength	35ksi	
Tensile Strength	60ksi	
Elongation	Per ASTM A53	

Borusan Pipe

Houston Office 363 N. Sam Houston Parkway E. Ste. 500, Houston, TX 77060 **Baytown Mill** 4949 Borusan Road Baytown, Texas 77523

borusanpipeusa.com











ASTM Grade A SRM Sch80 Black Pipe

Scope

Covers Electric Resistance Welded Grade A Pipe with nominal wall thickness as shown in Table X2.2 and Table X2.3. Pipe is suitable for welding and suitable for forming operations involving coiling, bending, and flanging.

Produced to the latest revision of ASTM A53A/A53M ASME B36.10M. Pipe is UL listed and FM approved.

Bend Test

For NPS 2" and smaller a length of pipe shall be capable of being bent cold through 90° around a cylindrical mandrel twelve times the size of the outside diameter without developing cracks or opening the weld.

Product Marking

Each length of pipe shall be legibly marked by stencil to show name or brand of manufacturer, the kind of pipe, that is, ERW Grade A or B, the Heat Number, wall thickness or schedule, and length.

All bundles will have tags indicating footage per bundle, run number, and dimensions.

Hydrostatic & Nondestructive Testing

Hydrostatic inspection test pressures for plain-end pipe are listed in Table X 2.2 of the A53/A53M specification. Test pressures shall be maintained for a minimum of five seconds.

Nondestructive testing of the weld seam is performed on all sizes of pipe.

Frequency of Tests

Tensile tests are required for 1 length of pipe from each lot (not to exceed 500 lengths per size).

Permissible Variations in Wall Thickness

The minimum wall thickness at any point shall not be more than 12.5% under the nominal wall thickness specified.

Permissible Variations in Outside Diameter

The Pipe shall not vary more than +/- 1/64" (0.016") from the standard specified.

Permissible Variations in Weight per Foot

The weight of pipe shall not vary by more than +/- 10% from the standard specified.

Pure Shield Antimicrobial Coating

Borusan Pipe USA applies our Pure Shield coating to all pipe that we manufacture. This coating is designed to inhibit the initial onset of corrosion due to microbiological bacteria.

Size	OD Min	OD Max	Wall Thickness	Weight Per Foot	Pieces Per
NPS	Inch	Inch	Inch	Lbs/Ft	Bundle
1/2"	0.84	0.856	0.147	1.09	91
3/4"	1.05	1.066	0.154	1.48	79
1"	1.315	1.331	0.179	2.17	44
1 1/4"	1.66	1.676	0.191	3	34
1 1/2"	1.9	1.919	0.200	3.63	29
2"	2.375	2.399	0.218	5.03	24
2 1/2"	2.875	2.904	0.276	7.67	20
3"	3.5	3.535	0.300	10.26	13

Chemical Compositon A53 Grade A			
Element Max %			
С	0.25		
Mn	0.95		
Р	0.05		
S	0.045		
Cu	0.4		
Ni	0.4		
Cr	0.4		
Мо	0.15		
V	0.08		

Mechanical Properties A53 Grade A			
	Min		
Yield Strength	30ksi		
Tensile Strength	48ksi		
Elongation	Per ASTM A53		

Borusan Pipe

Houston Office 363 N. Sam Houston Parkway E. Ste. 500, Houston, TX 77060













ASTM Grade B SRM Sch80 Black Pipe

Scope

Covers Electric Resistance Welded Grade B Pipe with nominal wall thickness as shown in Table X2.2 and Table X2.3. Pipe is suitable for welding and suitable for forming operations involving coiling, bending, and flanging.

Produced to the latest revision of ASTM A53A/A53M ASME B36.10M. Pipe is UL listed and FM approved.

Bend Test

For NPS 2" and smaller a length of pipe shall be capable of being bent cold through 90° around a cylindrical mandrel twelve times the size of the outside diameter without developing cracks or opening the weld.

Product Marking

Each length of pipe shall be legibly marked by stencil to show name or brand of manufacturer, the kind of pipe, that is, ERW Grade A or B, the Heat Number, wall thickness or schedule, and length.

All bundles will have tags indicating footage per bundle, run number, and dimensions.

Hydrostatic & Nondestructive Testing

Hydrostatic inspection test pressures for plain-end pipe are listed in Table X 2.2 of the A53/A53M specification. Test pressures shall be maintained for a minimum of five seconds.

Nondestructive testing of the weld seam is performed on all sizes of pipe.

Frequency of Tests

Tensile tests are required for 1 length of pipe from each lot (not to exceed 500 lengths per size).

Permissible Variations in Wall Thickness

The minimum wall thickness at any point shall not be more than 12.5% under the nominal wall thickness specified.

Permissible Variations in Outside Diameter

The Pipe shall not vary more than +/- 1/64" (0.016") from the standard specified.

Permissible Variations in Weight per Foot

The weight of pipe shall not vary by more than +/- 10% from the standard specified.

Pure Shield Antimicrobial Coating

Borusan Pipe USA applies our Pure Shield coating to all pipe that we manufacture. This coating is designed to inhibit the initial onset of corrosion due to microbiological bacteria.

Size	OD Min	OD Max	Wall Thickness	Weight Per Foot	Pieces Per
NPS	Inch	Inch	Inch	Lbs/Ft	Bundle
1/2"	0.84	0.856	0.147	1.09	91
3/4"	1.05	1.066	0.154	1.48	79
1"	1.315	1.331	0.179	2.17	44
1 1/4"	1.66	1.676	0.191	3	34
1 1/2"	1.9	1.919	0.200	3.63	29
2"	2.375	2.399	0.218	5.03	24
2 1/2"	2.875	2.904	0.276	7.67	20
3"	3.5	3.535	0.300	10.26	13

Chemical Compositon A53 Grade B			
Element	Max %		
С	0.3		
Mn	1.2		
Р	0.05		
S	0.045		
Cu	0.4		
Ni	0.4		
Cr	0.4		
Мо	0.15		
V	0.08		

Mechanical Properties A53 Grade B			
	Min		
Yield Strength	35ksi		
Tensile Strength	60ksi		
Elongation	Per ASTM A53		

Borusan Pipe

363 N. Sam Houston Parkway E. Ste. 500, Houston, TX 77060













ASTM A795 Grade A SRM Sch7 Black Pipe

Scope

Covers Electric Resistance Welded Grade B Pipe with nominal wall thickness as shown in Table X2.2 and Table X2.3. Pipe is suitable for welding and suitable for forming operations involving coiling, bending, and flanging.

Produced to the latest revision of ASTM A53A/A53M ASME B36.10M. Pipe is UL listed and FM approved.

Bend Test

For NPS 2" and smaller a length of pipe shall be capable of being bent cold through 90° around a cylindrical mandrel twelve times the size of the outside diameter without developing cracks or opening the weld.

Product Marking

Each length of pipe shall be legibly marked by stencil to show name or brand of manufacturer, the kind of pipe, that is, ERW Grade A or B, the Heat Number, wall thickness or schedule, and length.

All bundles will have tags indicating footage per bundle, run number, and dimensions.

Hydrostatic & Nondestructive Testing

Hydrostatic inspection test pressures for plain-end pipe are listed in Table X 2.2 of the A53/A53M specification. Test pressures shall be maintained for a minimum of five seconds.

Nondestructive testing of the weld seam is performed on all sizes of pipe.

Frequency of Tests

Tensile tests are required for 1 length of pipe from each lot (not to exceed 500 lengths per size).

Permissible Variations in Wall Thickness

The minimum wall thickness at any point shall not be more than 12.5% under the nominal wall thickness specified.

Permissible Variations in Outside Diameter

The Pipe shall not vary more than +/- 1/64" (0.016") from the standard specified.

Permissible Variations in Weight per Foot

The weight of pipe shall not vary by more than +/- 10% from the standard specified.

Pure Shield Antimicrobial Coating

Borusan Pipe USA applies our Pure Shield coating to all pipe that we manufacture. This coating is designed to inhibit the initial onset of corrosion due to microbiological bacteria.

Size	OD Min	OD Max	Wall Thickness	Weight Per Foot	ULCRR*	Pieces Per Bundle
NPS	Inch	Inch	Inch	Lbs/Ft		Bullate
1 1/4"	1.66	1.68	0.079	1.34	1.80	61
1 1/2"	1.9	1.92	0.084	1.62	2.64	61
2"	2.375	2.39	0.084	2.05	2.14	37
2 1/2"	2.875	2.89	0.086	2.55	1.43	30
3"	3.5	3.52	0.093	3.38	1.34	19

^{*}The CRR is a ratio value used to measure the ability of pipe to withstand corrosion. This number is calculated using Standard UL CRR formula, UL Fire Protection Directory, Category VIZY.

Chemical Compositon A53 Grade A			
Element	Max %		
С	0.25		
Mn	0.95		
Р	0.05		
S	0.045		
Cu	0.4		
Ni	0.4		
Cr	0.4		
Мо	0.15		
V	0.08		

Mechanical Properties A53 Grade A		
	Min	
Yield Strength	30ksi	
Tensile Strength	48ksi	
Elongation	Per ASTM A53	

Borusan Pipe

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ASTM A795 Grade A SRM Sch10 Black Pipe

Scope

Covers Electric Resistance Welded Grade B Pipe with nominal wall thickness as shown in Table X2.2 and Table X2.3. Pipe is suitable for welding and suitable for forming operations involving coiling, bending, and flanging.

Produced to the latest revision of ASTM A53A/A53M ASME B36.10M. Pipe is UL listed and FM approved.

Bend Test

For NPS 2" and smaller a length of pipe shall be capable of being bent cold through 90° around a cylindrical mandrel twelve times the size of the outside diameter without developing cracks or opening the weld.

Product Marking

Each length of pipe shall be legibly marked by stencil to show name or brand of manufacturer, the kind of pipe, that is, ERW Grade A or B, the Heat Number, wall thickness or schedule, and length.

All bundles will have tags indicating footage per bundle, run number, and dimensions.

Hydrostatic & Nondestructive Testing

Hydrostatic inspection test pressures for plain-end pipe are listed in Table X 2.2 of the A53/A53M specification. Test pressures shall be maintained for a minimum of five seconds.

Nondestructive testing of the weld seam is performed on all sizes of pipe.

Frequency of Tests

Tensile tests are required for 1 length of pipe from each lot (not to exceed 500 lengths per size).

Permissible Variations in Wall Thickness

The minimum wall thickness at any point shall not be more than 12.5% under the nominal wall thickness specified.

Permissible Variations in Outside Diameter

The Pipe shall not vary more than +/- 1/64" (0.016") from the standard specified.

Permissible Variations in Weight per Foot

The weight of pipe shall not vary by more than +/- 10% from the standard specified.

Pure Shield Antimicrobial Coating

Borusan Pipe USA applies our Pure Shield coating to all pipe that we manufacture. This coating is designed to inhibit the initial onset of corrosion due to microbiological bacteria.

Size	OD Min	OD Max	Wall Thickness	Weight Per Foot	C.R.R.*	Pieces Per
NPS	Inch	Inch	Inch	Lbs/Ft		Bundle
1"	1.315	1.331	0.109	1.41	11.4	60
1 1/4"	1.66	1.676	0.109	1.81	7.3	61
1 1/2"	1.9	1.919	0.109	2.09	5.8	61
2"	2.375	2.399	0.109	2.64	4.7	37
2 1/2"	2.875	2.904	0.120	3.53	3.5	30
3"	3.5	3.535	0.120	4.34	2.6	19

^{*}Calculated using Standard UL CCR formula, UL Fire Protection Directory, Category VIZY

Chemical Compositon A53 Grade A			
Element	Max %		
С	0.25		
Mn	0.95		
Р	0.05		
S	0.045		
Cu	0.4		
Ni	0.4		
Cr	0.4		
Мо	0.15		
V	0.08		

Mechanical Properties A53 Grade A		
	Min	
Yield Strength	30ksi	
Tensile Strength	48ksi	
Elongation	Per ASTM A53	

Borusan Pipe

Houston Office 363 N. Sam Houston Parkway E. Ste. 500, Houston, TX 77060











ASTM A53 Type E Grade B Steel Pipe

Scope

Covers Electric Resistance Welded Grade B Pipe with nominal wall thickness as shown in Table X2.2 and Table X2.3. Pipe is suitable for welding and suitable for forming operations involving coiling, bending, and flanging.

Produced to the latest revision of ASTM A53A/A53M ASME B36.10M. Pipe is UL listed and FM approved.

Hydrostatic & Nondestructive Testing

Hydrostatic inspection test pressures for plain-end pipe are listed in Table X 2.2 of the A53/A53M specification. Test pressures shall be maintained for a minimum of five seconds.

Nondestructive testing of the weld seam is performed on all sizes of pipe.

Product Marking

Each length of pipe shall be legibly marked by stencil to show name or brand of manufac-turer, the kind of pipe, that is, ERW Grade A or B, the Heat Number, wall thickness or schedule, and length.

All bundles will have tags indicating footage per bundle, run number, and dimensions.

End Finish

Plain End: NPS 2 and larger, STD and XS weights: ends beveled to angle of 30° , $+5^{\circ}$, -0° with a root face of $1/16^{\circ} \pm 1/32$

Frequency of Tests

Tensile tests are required for 1 length of pipe from each lot (not to exceed 500 lengths per size).

Permissible Variations in Wall Thickness

The minimum wall thickness at any point shall not be more than 12.5% under the nominal wall thickness specified.

Permissible Variations in Outside Diameter

Pipe NPS 2 and larger shall not vary more than +1% from the standard specified.

Permissible Variations in Weight per Foot

The weight of pipe shall not vary by more than +/- 10% from the standard specified.

Flattening Test

As a test for ductility of the weld for pipe 2 1/2" NPS and larger position the weld at 0" and alternately at 90° to the direction of force and flatten until the OD is 2/3 of the original outside diameter. No cracks shall occur along the inside or outside surface of the weld.

NPS	SCH	OD (inch)	Wall Thickness	LB/FT
4"	SCH40	4.5	0.237	10.8
6"	SCH40	6.625	0.28	18.99
8"	SCH40	8.625	0.322	28.58
10"	SCH40	10.75	0.365	40.52
12"	STD	12.75	0.375	49.61

Chemical Compositon A53 Grade B		
Element Max %		
С	0.3	
Mn	1.2	
Р	0.05	
S	0.045	
Cu	0.4	
Ni	0.4	
Cr	0.4	
Мо	0.15	
V	0.08	

Mechanical Properties A53 Grade B		
	Min	
Yield Strength	35ksi	
Tensile Strength	60ksi	
Elongation	Per ASTM A53	

Borusan Pipe

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363 N. Sam Houston Parkway E. Ste. 500, Houston, TX 77060















SUBMITTAL INFORMATION FORM

Project	
Contractor	
Date	
Engineer	
Specific Reference	
System Type	
Locations	
Pipe Schedule 40 Grade A Schedule 40 Grade B Schedule 80 Grade A Schedule 80 Grade B Schedule 7 Grade A Schedule 7 Grade A Type E Grade B	
Comments	

Borusan Pipe USA

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