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Pipe · Valves · Fittings · Structural Steel

# PIPE & SUPPLY CO., INC. Pipe · SERVICE IS OUR STRENGTH

### 1301 Wicomico Street • P.O. Box 6367 Baltimore, MD 21230

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#### **Pipe Specification A53**

Specification							0 through 160	
Scope	Covers Seamless and Welded, Black and hot-dipped galvanized nominal (average) wall pipe for coiling, bending,							
	flanging and other special purposes and is suitable for welding. Continuous-Welded pipe is not intended for flanging.							
	Purpose for which pipe is intended should be stated on order.							
Kinds of Steel Permitted	Open-hearth Basic-oxygen							
For Pipe Material	Electric-furnace							
Hot-Dipped	Sets standards for coating of pipe with zinc inside and outside by the hot-dipped process. Weight of coating must							
Galvanizing	not average less than 1.8 oz. Per square foot and not less than 1.6 oz. Per square foot. The minimum wall thickness at any point shall not be more than 12.5% under the nominal wall thickness specified.							
Permissible Variations	I he minimum wall thick	iness at any	point shall i	not be mo	re than 12.	5% under t	he nominal wall thicknes	s specified.
in Wall Thickness Chemical		C max %	Mn max %	D max %	S may %			
	Seamless or ERW	<u>U max /o</u>	IVIII IIIax /o	<u>r IIIax /o</u>	<u>3 max /0</u>			
Requirements	Grade A	0.25	0.95	0.05	0.06			
	Grade B	0.25	1.20	0.05	0.06			
	Continuous-weld	-	-	0.05	0.06			
Tensile		-				anless a	and Electric-	
Requirements	Continuous- Seamless and Electric- Welded resistance-welded							
				<u>~</u>	Grade		Grade B	
	Tensile Strength, min.,	nei	45.000	<b>`</b>	48,00		60,000	
	Yield Strength, min., ps				30,00		35,000	
Hydrostatic					,			ostatic
Testing	Hydrostatic inspection test pressures for plain end and threaded and coupled pipe are specified. Hydrostatic pressure shall be maintained for not less than 5 seconds for all sizes of seamless and electric resistance-weld pipe.							
Permissible Variations	Plus or Minus 10%			5 36001103	101 411 3126	3 01 3641110		ce weid pipe.
in Weights per Foot								
Permissible Variations	Outside Diameter at an	v point shal	ll not varv fro	m standa	rd specifier	l more than	I	
in Outside Diameter	Outside Diameter at any point shall not vary from standard specified more than For NPS 1 1/2 and Smaller Sizes For NPS 2 and Larger Sizes							
	1/64 " 1/32" under 1% over 1% under							
Mechanical Tests	Tensile Test Transverse required on ERW for NPS 8 and large.							
Specified	Sending Test (Cold) STD and XS-NPS 2 and under XXS-NPS 1 1/4 and under.							
	,			Degree of			Diameter of Mandrel	
	For Normal A53 U	ses	_	90			12 x nom. dia. of pipe	
	For Close Coiling		180 8 x nom. dia. of pipe					
	Flattening Test NPS 2 and larger STD and XS. (Not required for XXS pipe).							
Number of	Seamless and Electric-Resistance-Welded Bending, flattening, tensile on one length of pipe from each lot of 500							
Tests Required	lengths or less of a size.							
	Continuous-Weld Bending, flattening, tensile							
	NPS 1 1/2 & smaller NPS 2 & larger							
			one/25	tons		one/50 to	ns	
Lengths	Standard Weight							
	Single Random 16' - 22'. 5% may be jointers. If Plain Ends 5 % may be 12' - 16'.							
	Double Random Shortest Length 22', minimum average for order 35'.							
	Extra Strong & Double Extra Strong							
	Single Random 12' - 22'. 5% may be 6' - 12'.							
	Double Random (XS and lighter) Shortest Length 22', minimum average for order 35'.							
	Lengths longer than single random with wall thicknessess heavier than XS subject to negotiation.							
Required Markings	Rolled, Stamped or Stenciled (Mfgrs. Option)							
on Each Length	Name or brand of manufacturer.							
(On Tags attached to	Kind of pipe, that is, Continuous Welded, Electric-Resistance-Welded A, Electric-Resistance-Welded B, Seamless A;							
each Bundle in case	or Seamless B; XS for extra strong, XXS for double extra strong.							
of Bundled Pipe)	ASTM A53							
	Length of pipe.							
General	Couplings Applied handling tight. Couplings, 2" and smaller straight tapped, other sizes taper tapped.							
Information	Thread Protection Applied to pipe 4" and large.							
	End Finish (unless otherwise specified)							
	STD or XS, or wall thicknesses less than 0.500 in. (excluding XXS): Plain and beveled.							
	All XXS and wall thicknesses over 0.500 in .: Plain end square cut.							