

DEACON INDUSTRIAL SUPPLY COMPANY, INC.

Pipe Specification A53

Specification	IA53 NPS 1/8 26 STD. XS and XXS. ANSI Schedules 10 through 160
Scope	Covers Seamless and Welded, Black and hot-dipped galvanized nominal (average) wall pipe for coiling, bending,
Зсоре	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.
Permissible Variations	The minimum wall thickness at any point shall not be more than 12.5% under the nominal wall thickness specified.
in Wall Thickness	
Chemical	C max % Mn max % P max % S max %
Requirements	Seamless or ERW
	Grade A 0.25 0.95 0.05 0.06
	Grade B 0.30 1.20 0.05 0.06
	Continuous-weld 0.08 0.06
Tensile	Continuous- Seamless and Electric-
Requirements	
	Grade A Grade B
	Tensile Strength, min., psi
	Yield Strength, min., psi25,000 30,000 35,000
Hydrostatic	Hydrostatic inspection test pressures for plain end and threaded and coupled pipe are specified. Hydrostatic
Testing	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%
in Weights per Foot	
Permissible Variations	Outside Diameter at any point shall not vary from standard specified more than
in Outside Diameter	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 Bend Diameter of Mandrel
	For Normal A53 Uses 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 tons
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.