

SUMMARY OF SPECIFICATIONS APPLYING TO CARBON STEEL PIPE

	ASTM A 53				
	Same as ASTM A 106				
WALL TOLERANCES					
CHEMISTRY		Carbon % Max.	Ma. % Max.	Phos. % Max.	S % Max.
	SEAMLESS (Type S) Open hearth, electric furnace, or basic oxygen				
	Grade A	0.25	0.95	0.05	0.06
	Grade B	0.30	1.20	0.05	0.06
	ELECTRIC WELDED (Type E) Open hearth, electric furnace, or basic oxygen				
	Grade A	0.25	0.95	0.05	0.06
	Grade B	0.30	1.20	0.05	0.06
	BUTT WELDED (Type F) Open hearth, electric furnace, or basic oxygen	—	—	0.08	0.06
PHYSICAL PROPERTIES	FURNACE WELDED (Butt Welded)				
				Open hearth Basic Oxygen or Electric Furnace	
	Tensile Strength Min. psi			45,000	
	Yield Strength Min. psi			25,000	
	SEAMLESS or ELECTRIC WELDED				
		Grade A		Grade B	
	Tensile Strength Min. psi	48,000		60,000	
	Yield Strength Min. psi	30,000		35,000	

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ASTM A 106				API 5L						
Minimum wall thickness at any point shall be not more than 12.5% under nominal wall specified.				SEAMLESS						
				27/8" and smaller 3 1/2" 4" and larger		Plus 20%		Minus 12 1/2%		
						18%		12 1/2%		
				27/8" and smaller 3 1/2" 4" thru 18" 20" and larger		15%		12 1/2%		
						WELDED				
				20%		18%		12 1/2%		
						15%		12 1/2%		
				17 1/2%		10%				
	Grade A	Grade B	Grade C	C	Mn	P	S			
Carbon,	0.25%	0.30%	0.30%	% Max.	% Max.	% Max.	% Max.	% Max.	% Max.	
Max.										
Manganese	0.27/	0.29/	0.29/							
	0.93%	1.06%	1.06%							
Phosph.,	0.048%	0.048%	0.048%	Grade A	0.22	—	0.90	—	0.040	0.05
Max										
Sulphur,	0.058%	0.058%	0.058%	Grade B	0.27	—	1.15	—	0.040	0.05
Max										
Silicon,	0.01%	0.10%	0.10%	Grade C	0.27	—	1.15	—	0.040	0.05
Min.										
				ELECTRIC WELDED						
				Grade A	0.21	—	0.90	—	0.040	0.05
				Grade B	0.26	—	1.15	—	0.040	0.05