

Sl. No.	Parameters	Description as per Specification			
1	Specification	ASME SA 210 Gr. A /C			
2	Size	OD 62.00 X WT 6.50 MM			
3	Application	SA 210 Gr. A /C - Standard Specification of Seamless Pipe for Boiler, Super Heater.			
4	Process of Manufacture	Cold drawn seamless			
5	Specification Grade	SA 210 Gr. A	SA 210 Gr. C	Lalbaba Offer	
6	Mechanical Test	Yst in Mpa	255 min	275 min	295-350
		UTS in Mpa	415 min	485 min	500-550
		E%	30 min	30 min	35%
		Hardness	79 HRB max	89 HRB max	75-80 HRB
		Bend test	Not Applicable	Not Applicable	OK
		Flattening	Applicable	Applicable	OK
		Flarring	Applicable	Applicable	OK
7	Chemical Composition	Impact	Not Applicable	Not Applicable	OK
		%C	0.27 max	0.35 max	0.18-0.22
		%Mn	0.93 max	0.29-1.06	1.10-1.25
		%Si	0.10 min	0.10 min	0.10-0.35
		%p	0.035 max	0.035 max	0.025 max
		%S	0.035 max	0.035 max	0.025 max
		%Cr	-	-	0.005-0.009
		%Cu	-	-	0.004-0.009
		%Mo	-	-	0.005-0.008
		%Ni	-	-	0.006-0.007
%V	-	-	0.0025 max		
8	NDT	Others	-	-	-
		ECT	Applicable as per specification ASME E309	Applicable as per specification ASME E309	As per specification ASME E309 with minimum 0.8 mm drill hole
		UT	Applicable as per specification ASME E213	Applicable as per specification ASME E213	As per specification ASME E213 with minimum 0.3 mm notch depth
9	Hydrostatic Test	2500 PSI pressure minimum 5Sec holding time	2500 PSI pressure minimum 5Sec holding time	2500 PSI 5 Sec holding time	
10	Dimension Tolerance (mm)	OD	OD (+0.25/-0.25)	OD (+0.25/-0.25)	OD (+0.25/-0.25)
		WT / ID	WT (+22%/-0.00)	WT(+22%/-0.00)	WT(+22%/-0.00)
11	Heat Treatments Condition	Annealing/Normalized	Annealing/Normalized	Annealing/Normalized	
12	Surface Condition	-	-	Scale & defect free black surface	
13	End Condition	Plain end	Plain end	Plain end	
14	Straightness	Reasonably staright	Reasonably staright	0.8 : 1000 MM	
15	Ovality	-	-	0.3 mm Max	
16	Eccentricity	-	-	5% Max	
17	Stencil Marking	LALBABA/LOGO/ASME SA 210 Gr. A /C/ OD 62.00 X WT 6.50 MM / MADE IN INDIA			
18	Coating	Rust preventive coating / Black Varnish		Oiling/Varnish	

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