

Sl. No.	Parameters	Description as per Specification					
1	Specification	ASTM A312 / A213 TP304 / TP304L / DIN 17456 / EN 10216-5, Gr. X5CrNi8-10 // SN 1.4301					
2	Size	OD 42.16 X WT 3.56 MM					
3	Application	ASTM A312 TP 304 : Seamless Heavily Cold Worked Austenitic Stainless Steel Pipes					
		ASTM A213 TP304 / TP304L : Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes					
		DIN 17456, Gr. X5CrNi8-10 - General purpose seamless circular stainless steel tube.					
		EN 10216-5, Gr. X5CrNi8-10 - Seamless steel tubes for pressure purpose.					
4	Process of Manufacture	Cold drawn seamless					
5	Specification Grade	ASTM A312 TP 304 / TP 304L	ASTM A213, TP304 / TP 304L	DIN 17456, Gr. X5CrNi8-10	EN 10216-5, Gr. X5CrNi8-10 / SN 1.4301	Lalbaba Offer	
6	Mechanical Test	Yst in Mpa	205 Min / 170 Min	205 Min / 170 Min	195 Min	195 Min	325-375
		UTS in Mpa	515 Min / 485 Min	515 Min / 485 Min	500-700	500-700	585-650
		E%	35% Min	35% Min	40 min	40 min	45-55
		Hardness	Not Applicable	90 HRB Max	Not Applicable	Not Applicable	75-80
		Bend test	Applicable	Applicable	Not Applicable	Not Applicable	OK
		Flattening	Applicable	Applicable	Applicable	Applicable	OK
		Flarring	Not Applicable	Not Applicable	Applicable	Applicable	OK
		Impact	Not Applicable	Not Applicable	100J at RT	100J at RT	OK
7	Chemical Composition	%C	0.08 max / 0.035 Max	0.08 max / 0.035 Max	0.07 Max	0.07 Max	0.035 max
		%Mn	2.0 max	2.0 max	2.0 Max	2.0 Max	2.0 max
		%Si	1.0 max	1.0 max	1.0 Max	1.0 Max	1.0 max
		%P	0.045 Max	0.045 Max	0.040 Max	0.040 Max	0.035 Max
		%S	0.035 Max	0.035 Max	0.015 Max	0.015 Max	0.025 Max
		%Cr	18.0-20.0	18.0-20.0	17-19.50	17-19.50	18.0-19.0
		%Cu	-	-	-	-	-
		%Mo	-	-	-	-	-
		%Ni	8-11	8-11	8.0-10.5	8.0-10.5	8-11
		%V	-	-	-	-	-
		Others	-	-	N-0.11 Max	N-0.11 Max	-
8	NDT	ECT	ASTM E309	ASTM E309	EN10246-2	EN10246-2	As per specification with minimum 0.8 mm drill hole
		UT	ASTM E213	ASTM E213	EN10246-6	EN10246-6	As per specification with minimum 0.3 mm notch depth
9	Hydrostatic Test	2500 PSI pressure minimum 5Sec holding time	1000 PSI pressure minimum 5Sec holding time	-	-	2500 PSI pressure minimum 5Sec holding time	
10	Dimension Tolerance (mm)	OD	+/- 0.40	+/- 0.40	+/-1.0% or +/-0.5 whichever is greater	+/-1.0% or +/-0.5 whichever is greater	OD +/-0.20 MM
		WT / ID	-12.5%/+20%	-12.5%/+20%	+/-12.50% or +/-0.4 whichever is greater	+/-12.50% or +/-0.4 whichever is greater	+/-5.0%
11	Heat Treatments Condition	Above 1040°C & quench in water	Above 1040°C & quench in water	Above 1040°C & quench in water	Above 1040°C & quench in water	Above 1040°C & quench in water	
12	Surface Condition	Free of scale and contaminating exogenous iron particles by Pickling, blasting. Surface finishing is not mandatory when pipe is bright annealed.					Pickling & Passivated surface
13	End Condition	Plain end	Plain end	Plain end	Plain end	Plain end	
14	Straightness	Reasonably staright	Reasonably staright	Reasonably staright	Reasonably staright	0.8 : 1000 MM	
15	Ovality	-	-	-	-	0.3 mm Max	
16	Eccentricity	-	-	-	-	5% Max	
17	Stencil Marking	LALBABA / ASTM A312 / A213 TP304 / TP304L / DIN 17456 / EN 10216-5, Gr. X5CrNi8-10 / SN 1.4301/OD 42.16 X WT 3.56 MM / MADE IN INDIA					
18	Coating	Passivated					Passivated

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