

Sl. No.	Parameters	Description as per Specification					
1	Specification	ASTM A192 / A 179 /DIN 17175 ST 35.8/ EN10216-2 Gr. P235GH					
2	Size	OD 20.0 X WT 2.00 MM					
3	Application	ASTM A192- Seamless Carbon Steel Boiler Tubes for High-Pressure Service					
		ASTM A179 - Seamless Cold-Drawn Low-Carbon Steel Heat-Exchanger and Condenser Tubes					
		DIN 17175 ST 35.8 - Seamless tubes of heat resistance tube.					
		EN10216-2 Gr. P235GH - Standard Specification for Seamless tube pressure purpose.					
4	Process of Manufacture	Cold drawn seamless					
5	Specification Grade	ASTM A192	ASTM A179	DIN 17175 ST 35.8	EN10216-2 Gr. P235GH	Lalbaba Offer	
6	Mechanical Test	Yst in Mpa	180 Min	180 Min	235 Min	235 Min	260-300
		UTS in Mpa	325 Min	325 Min	360-480	360-500	380-410
		E%	35% Min	35% Min	25% Min	25 Min	45-50
		Hardness	77 HRB max	72 HRB max	Not Applicable	Not Applicable	62-67
		Bend test	Not Applicable	Not Applicable	Not Applicable	Not Applicable	NA
		Flattening	Applicable	Applicable	Applicable	Applicable	OK
		Flaring	Applicable	Applicable	Applicable	Applicable	OK
		Impact	Not Applicable	Not Applicable	Not Applicable	27J at 0°C	OK
7	Chemical Composition	%C	0.06-0.18	0.06-0.18	0.17 Max	0.16 Max	0.10 - 0.14
		%Mn	0.27-0.63	0.27-0.63	0.40-0.80	1.20 Max	0.40 - 0.60
		%Si	0.25 Max	-	0.10-0.35	0.35 Max	0.10-0.35
		%p	0.035 Max	0.035 Max	0.04 Max	0.025 Max	0.025 Max
		%S	0.035 Max	0.035 Max	0.04 Max	0.020 Max	0.020 Max
		%Cr	-	-	-	0.30 Max	0.30 Max
		%Cu	-	-	-	0.30 Max	0.30 Max
		%Mo	-	-	-	0.08 Max	0.08 Max
		%Ni	-	-	-	0.03 Max	0.03 Max
		%V	-	-	-	-	-
		Others	-	-	-	Nb-0.01 Max, Ti-0.04 Max	Al- 0.04 Max
8	NDT	ECT	ASTM E309	ASTM E309	EN10246-1	EN10246-1	As per specification with minimum 0.8 mm drill hole
		UT	ASTM E213	ASTM E213	EN10246-7	EN10246-7	As per specification with minimum 0.3 mm notch depth
9	Hydrostatic Test	1000 PSI pressure minimum 5Sec holding time	1000 PSI pressure minimum 5Sec holding time	As per formula 20 x ST/D	As per formula 20 x ST/D	1000 PSI 5 Sec holding time	
10	Dimension Tolerance (mm)	OD	+/- 0.10	+/- 0.10	+/-0.15	+/-0.5% or +/-0.3 MM whichever is greater	OD +/-0.20 MM
		WT / ID	WT -0/+20%	-0/+20%	+/-10%	+/-10% or +/-0.20 mm whichever is greater	WT +/-0.30 MM
11	Heat Treatments Condition	650°C & higher	650°C & higher	Normalizing / Annealing	Normalizing & tempering above 650°C	Normalized above 870°C	
12	Surface Condition	-	-	Scale free	Scale free	Scale & defect free black surface	
13	End Condition	Plain end	Plain end	Plain end	Plain end	OK	
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 A192 / A 179 /DIN 17175 ST 35.8/ EN10216-2 Gr. P235GH/OD 20.00 X WT 2.00 MM / MADE IN INDIA					
18	Coating	Rust preventive coating / Clear Varnish				Oiling/Clear Varnish	

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