

Sl. No.	Parameters	Description as per Specification				
1	Specification	EN 10305 -1 E235 / EN 10305 -4 E235 / DIN 2391 ST 35				
2	Size	OD 12.00 X WT 1.50 MM				
3	Application	EN 10305 -1 E235 - Standard Specification of Seamless Pipe for precision applications.				
		EN 10305 -4 E235 - Standard Specification of Seamless Pipe for precision applications - hydraulic & pneumatic power system				
		DIN 2391 ST 35 - Standard Specification of Seamless Pipe for precision applications.				
4	Process of Manufacture	Cold drawn seamless				
5	Specification Grade	EN 10305 -1 E235	EN 10305 -4 E235	DIN 2391 ST 35	Lalbaba Offer	
6	Mechanical Test	Yst in Mpa	235 min	235 min	235 min	280-320
		UTS in Mpa	340-480	340-480	340-480	370-450
		E%	25% min	25% min	25% min	30% min
		Hardness	Not Applicable	Not Applicable	Not Applicable	65-70 HRB
		Bend test	Not Applicable	Not Applicable	Not Applicable	Not Applicable
		Flattening	Applicable	Applicable	Applicable	OK
		Flaring	Applicable	Applicable	Applicable	OK
		Impact	Not Applicable	Not Applicable	Not Applicable	Not Applicable
7	Chemical Composition	%C	0.17 max	0.17 max	0.17 max	0.10-0.14
		%Mn	1.20 max	1.20 max	1.20 max	0.40-0.60
		%Si	0.35 max	0.35 max	0.35 max	0.35 max
		%P	0.025 max	0.025 max	0.025 max	0.025 max
		%S	0.025 max	0.025 max	0.025 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	-	-	-	-
		Others	-	-	-	-
8	NDT	ECT	Applicable as per specification ISO 10893-2	Applicable as per specification ISO 10893-2	Applicable as per specification ISO 10893-2	As per specification E309 with minimum 0.8 mm drill hole
		UT	Applicable as per specification ISO 10893-10	Applicable as per specification ISO 10893-10	Applicable as per specification ISO 10893-10	As per specification E213 with minimum 0.3 mm notch depth
9	Hydrostatic Test	As per EN ISO 10893-1	As per EN ISO 10893-1	As per EN ISO 10893-1	As per std specification	
10	Dimension Tolerance (mm)	OD	OD (+0.08/-0.08)	OD(+0.08/-0.08)	OD(+0.08/-0.08)	OD(+0.08/-0.08)
		WT / ID	ID (+0.15/-0.15)	ID(+0.15/-0.15)	ID(+0.15/-0.15)	ID (+0.15/-0.15)
11	Heat Treatments Condition	As Drawn / Annealing / Normalizing / SR	As Drawn / Annealing / Normalizing / SR	As Drawn / Annealing / Normalizing / SR	Normalized	
12	Surface Condition	Bright	Bright	Bright	Bright	
13	End Condition	Plain end	Plain end	Plain end	Plain end	
14	Straightness	0.002 *L:1000	0.002 *L:1000	Reasonably staright	0.8 : 1000 MM	
15	Ovality	-	-	-	0.3 mm Max	
16	Eccentricity	-	-	-	5% Max	
17	Stencil Marking	LALBABA/LOGO/EN 10305 -1 E235 / EN 10305 -4 E235 / DIN 2391 ST 35/OD 12.00 X WT 1.50 MM / MADE IN INDIA				
18	Coating	Rust preventive coating			Rust Preventive Oil	

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