

Order#: 718417 PO#: 4500098935 Seq: 11 Customer Seq: 11  
 Comco Part#: P 6 XS S642 S BMA Part Description: Pipe 6" (168.3mm O.D.) XS SMLS A/SA106B/CSA GR 290 CAT 1 SRL BEVELED END (MAHARASHTRA)  
 Heat#: A9278 Mill: Maharashtra Seamless Limited Tagging: NACE



**MAHARASHTRA SEAMLESS LIMITED**  
**INSPECTION CERTIFICATE**  
 EM:1020413.1

QCT-249F

Page 1 of 1

Tc No : MSL-14/QC/ 0574A/2018 Specification : CSA E245.1-18 GR.290 CAT-I SS, ASTM/ASME A/SA 106  
 TC Date : 16-JUN-18 GR.B(2015)  
 W.O. No : 6180009 Product : Carbon Steel Pipes  
 Customer: Process : HOT FINISH SEAMLESS  
 Ltd. Material  
 Steel Designation : ....  
 Steel Making Process: Electric Arc Furnace  
 Fully killed/Rimmed/Semi Killed :Aluminium fully killed

P.O. No : TC8522 Dt. 24-APR-18

Sl No	Material/Item Code	S I Z E (Inch) (OD x WT)	Length Range	Heat No.		No Of PCS	Length Feet	End Finish	WEIGHT (MT)	Hydro-Static Test Pressure (10 Sec.)	Bend Test	Flattening	Flaring	Drift	Cruc. Expn. int
				Stl. Maker	HSL										
1		6.625 X 0.432	18-21	2800790	A9266	9	187.86	BEVEL	2.437	1000 PSI	NA	OK	NA	NA	NA
2		6.625 X 0.432	18-21	2800791	A9278	43	890.58	BEVEL	11.356	1000 PSI	NA	OK	NA	NA	NA

PHYSICAL PROPERTIES										CHEMICAL COMPOSITION (%)														
Sl No	Heat No	VST (Mpa)	UTS (Mpa)	El (%)	Hardness BHN	Impact	Shear Area values (t)	LA / PA	C	Mn	Si	P	S	Cr	Mo	Ni	V	Cu	Al	Ti	Nb	B	CE	
		Testing is done at room temp							Testing is done at Room Temperature (20 +/- 2 Degree C)															
		GI=5.65 X Sq. root 80(L)																						
	Required (Max)	499	760	30	237				.26	1.06	.5	.02	.01	.4	.15	.4	.08	.6		.11	.11	.001		
	Required (Min)	290	415						.29	.1														
1	2800790 A9266	318.23	505.71	39.60	132-137			LA	1.70	1.050	.250	.013	.004	.015	.002	.006	.001	.006	.034	.002	.001	.000	.000	.15
								PA	1.88	1.059	.253	.011	.005	.014	.003	.011	.001	.007	.026	.002	.000	.000	.000	.17
								PA	1.84	1.060	.261	.011	.004	.013	.003	.014	.002	.007	.029	.002	.000	.000	.000	.16
2	2800791 A9278	325.97	491.33	38.20	132-137			LA	1.60	1.060	.230	.013	.004	.015	.002	.005	.001	.006	.035	.002	.001	.000	.000	.14
								PA	1.75	1.050	.221	.013	.004	.017	.001	.012	.001	.007	.026	.002	.000	.000	.000	.15
								PA	1.78	1.045	.226	.013	.005	.015	.002	.012	.001	.010	.027	.002	.000	.000	.000	.15

Dimension & Visual Examined : Outside Diameter, thickness, weight, length conforms to above specification.  
 Coating : All Pipes are coated with rust preventive from outside surfaces only.  
 N.D.T. : All Pipes are tested by EMI method conforming to ASTM E270 for longitudinal & transverse defect & WT monitored ultrasonically.  
 Product Delivery Condition : As Rolled  
 Heat Treatment : Not applicable  
 Marking/Stencilling : MAHA MSL ASTM/ASME A/SA 106 GR.B, CSA E245.1-18 GR.290 CAT-I SS BE SML (NACE RESTRICTED TO HARDNESS MAX 22 HRC & SULPHUR CONTENT 0.015 MAX) DD 6.625 INCH X WT 0.432 INCH X LENGTH (IN FEET) HES HEAT NO. ... 1000 PSI/WT=28.40 PPP-MADE IN INDIA/COMCO POSEI-9438-8128 NO.

Remarks : Material conforms to NACE MR-0102/ISO17945, MR-0175/ISO15156-2, Hydro Pressure Formula=2ST/D, Formula CE for CSA-C/FIM/6.21/34-Cu/15/01/20-Cr/Mo/V/In/1.5-501 & ASTM-C/HR/5-Cr/Mo-V/1.5-In/Cu/15. Nuc Finished Temp. at 880-930 Deg.C. EMI covered out as ref. standard N10 notch.

CERTIFY THAT THE MATERIAL CONFORMS TO ABOVE SPECIFICATION. FOR MAHARASHTRA SEAMLESS LIMITED



R.K. SRIVASTAVA - Asst. ENGINEER

Warning: Modification or unauthorized use of this certification is strictly prohibited. Violation calls for criminal prosecution. For authenticity verification contact us at [msl@comco.com](mailto:msl@comco.com)  
 W.&R.O: Pimpri-Village, Solapur-17/0, K. Road, Dist. Raigad, Maharashtra-402126 Phone: 02194238511, 222010 Fax: 238513 Rev. No: 8.12-04-2017.