

Order#: 617837 PO#: 4500091270 Seq: 5 Customer Seq: 7
 Comco Part#: P 10 STD S642 D BMA Part Description: Pipe 10 (273mm O.D.) STANDARD SMLS CSA GR 290 CAT1 DUAL GRADE A106 DRL BEVELED (MAHARASHTRA)
 Heat#: A8000 Mill: Maharashtra Seamless Limited Tagging: NACE/TAG:PPPABQBEACR223



MAHARASHTRA SEAMLESS LIMITED
INSPECTION CERTIFICATE
 EN:10204:3.1

QCF-249B

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Tc No : MSL-14/QC/1434/2017		Specification : CSA Z245.1-14 GR.290 CAT-I SS/ ASTM/ASME A/SA 106 GR.B(2015)	
TC Date : 10-OCT-17		Product : Carbon Steel Pipes	
W.O. No : 6170022		Process : HOT FINISH SEAMLESS	
Customer: MARUBENI-ITochu TUBULARS CANADA LTD.		Material	
P.O. No : COMCO PO#E1-8770		Steel Designation : ---	
		Steel Making Process: Electric Arc Furnace	
		Fully killed/Rimmed/Semi Killed : Aluminium fully killed	

Sl NO	Material/Item Code	SIZE (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 Expn.	Crash ing
				Stl Maker	MGL										
1		10.750 X 0.365	36-39	4509397	A5236	14	529.84	BEVEL	9.716	2430 PSI	NA	OK	NA	NA	NA
2		10.750 X 0.365	36-39	4703717	A7967	83	3082.12	BEVEL	56.616	2430 PSI	NA	OK	NA	NA	NA
3		10.750 X 0.365	36-39	4703726	A8000	82	3052.45	BEVEL	56.102	2430 PSI	NA	OK	NA	NA	NA
4		10.750 X 0.365	36-39	4703744	A7963	27	1024.82	BEVEL	18.836	2430 PSI	NA	OK	NA	NA	NA

Sl No	Heat No	YST (Mpa)	UTS (Mpa)	El (%)	Hardness BHN	Impact	Shear Area values(%)	LA / PA	CHEMICAL COMPOSITION (%)														
									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)														
Required (Max)									.26	1.06	.5	.02	.01	.4	.15	.4	.08	.4	.11	.11	.005	.4	
Required (Min)									.29	.29	.1												
1	4509397	A5236	297.20	455.38	46.00	110-132	--	--	LA .120	.930	.240	.005	.002	.021	.004	.010	.001	.007	.032	.002	.001	.000	.281
									PA .135	.938	.209	.010	.005	.034	.003	.061	.001	.007	.023	.001	.000	.000	.304
									PA .138	.950	.210	.010	.005	.033	.003	.064	.002	.007	.023	.001	.000	.000	.309
2	4703717	A7967	382.89	505.79	37.00	139-141	--	--	LA .140	1.280	.290	.017	.003	.013	.001	.008	.001	.006	.027	.002	.002	.000	.357
									PA .157	1.337	.289	.017	.006	.022	.004	.046	.002	.008	.021	.003	.000	.000	.386
									PA .156	1.328	.287	.017	.006	.024	.003	.048	.002	.008	.021	.003	.000	.000	.387
3	4703726	A8000	365.35	514.79	35.60	141-144	--	--	LA .150	1.270	.290	.016	.003	.013	.001	.007	.001	.005	.026	.002	.002	.000	.355
									PA .156	1.296	.286	.018	.006	.029	.004	.050	.002	.009	.022	.002	.000	.000	.383
									PA .158	1.294	.285	.018	.006	.028	.004	.050	.002	.008	.022	.002	.000	.000	.384
4	4703744	A7963	340.60	460.52	42.00	132-135	--	--	LA .180	1.020	.240	.013	.004	.011	.001	.007	.001	.006	.027	.002	.001	.000	.353
									PA .184	1.034	.223	.015	.005	.035	.002	.025	.002	.008	.026	.003	.000	.000	.366
									PA .186	1.028	.217	.015	.005	.037	.002	.023	.002	.008	.025	.002	.000	.000	.368

Dimension & Visual Examined : Outside diameter, thickness, weight, length conforms to above specification.
 Coating : All Pipes are coated with rust preventive from outside surface only.
 H.D.P. : All Pipes are tested by EMI method conforming to ASTM Z570 for longitudinal & transverse defect & WT monitored through Gamma rays carried out at N10 Notch.
 Product Delivery Condition : As Rolled
 Heat Treatment : Not applicable
 Marking/Stencilling : N/A MSL ASTM/ASME A/SA 106 GR.B, CSA Z245.1 GR.290 CAT-I SS DRL B/E OD 10.75 INCH X WT 0.365 INCH LENGTH (IN FEET) HPS HEAT NO. 2430 PSI WEIGHT= 48.52 LB/ FT. + MADE IN INDIA +COMCO PO# E1-8770

Remarks : Material conforms to NACE MR 0103/ISO 17945, HR 0175/ ISO 15156-2, Hydro Pressure Formula = 2ST/D, Formula CE for CSA-C-F(Mn/6-Si/24+Cu/15+Ni/20+(Cr+Mo+V)/5+58) & ASTM=C-Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15. For each reduction of 0.01% Carbon below 0.304, an increase of 0.05% Manganese above 1.06% would be permitted to a Maximum of 1.35% Mn.

CERTIFY THAT THE MATERIAL CONFORMS TO ABOVE SPECIFICATION.

FOR MAHARASHTRA SEAMLESS LIMITED

SEAL

L.R. CHOPRA - Dy. MANAGER

Warning: Modification or unauthorized use of this certification is strictly prohibited. Violation calls for criminal prosecution. For authenticity verification contact us at: msltc@mahaseam.com
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