


Manufacturer: ArcelorMittal Tubular Products Roman S.A. STEFAN CEL MARE STR, BL 15, SC. A, PARTER I ROMAN, NEAMT ROMANIA		MILL TEST CERTIFICATE according to EN 10204/3.1/2004				Page 1/3 B 18070/3 31.01.2020		 ArcelorMittal	
Buyer: ArcelorMittal Projects Americas LLC 19500 State Highway 249 Suite 650 / Houston, USA		SEAMLESS STEEL PIPES				Total weight: 45.928 tons 101 254 lbs	Total Length: 245.63 meters 805.87 feet	Pieces 25	Bundles -
Buyer's reference PO NO.: 10113848/17692		Standard: API 5L ed.46-2018-PSL 1; ASTM A 106/A 106M-2019; ASME SA 106/SA 106M-2017; ASTM A 53/A 53M-2018; ASME SA 53/SA53M/2017; ANSI/NACE MR 0103-ISO 17945-2015; NACE MR 0175/ISO 15156-1&2-2015							
Contract 50004304		Dimensions: 323.90 x 25.40 mm 12.750 x 1.000 inch		Schedule: XXS/120		Length: 9.00 - 11.00 m		29.53 - 36.09 feet	
Item		Item Client		Hydro Test:	Bar	PSI	MPa	Time(sec)	Steel Grade: X42/B/C
6					205	2970	20.5	5	

Chemical Analysis(%)

Heat	Bulletin No.	Product Req.	Max Min	C	Mn	Si	S	P	Cr	Ni	Cu	Mo	V	Nb	Ti	B
				0.28	1.06	-	0.030	0.030	0.40	0.40	0.40	0.15	-	-	-	0.0010
				-	0.29	0.10	-	-	-	-	-	-	-	-	-	-
1192428		Heat analysis		0.14	0.85	0.20	0.003	0.010	0.06	0.08	0.17	0.01	0.002	0.002	0.002	0.0004
456476		Heat analysis		0.20	1.01	0.26	0.001	0.009	0.14	0.08	0.12	0.02	0.004	0.002	0.002	0.0001
1192428	19-1008	Product analysis		0.15	0.86	0.24	0.004	0.011	0.06	0.08	0.16	0.01	0.000	0.001	0.002	0.0000
1192428	19-1008	Product analysis		0.15	0.86	0.24	0.004	0.011	0.06	0.08	0.16	0.01	0.000	0.001	0.002	0.0000
456476	19-1515	Product analysis		0.20	1.01	0.27	0.002	0.009	0.13	0.07	0.11	0.02	0.003	0.002	0.002	0.0000
456476	19-1515	Product analysis		0.20	1.03	0.27	0.002	0.009	0.13	0.07	0.11	0.02	0.003	0.002	0.002	0.0000

Chemical Analysis(%)

Heat	Bulletin No.	Product Req.	Max Min	Nb + V	Nb + Ti + V	Cr + Mo + Ni + Cu + V
				0.060	0.150	1.000
				-	-	-
1192428		Heat analysis		0.004	0.006	0.322
456476		Heat analysis		0.006	0.008	0.364
1192428	19-1008	Product analysis		0.001	0.003	0.310
1192428	19-1008	Product analysis		0.001	0.003	0.310
456476	19-1515	Product analysis		0.005	0.007	0.333
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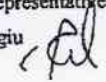
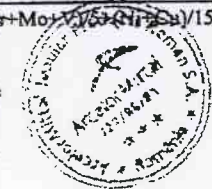
CE_{pcm} = C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B

CE_S = C+Mn/6

CE_{mw} = C+Mn/6+(Cr+Mo+V/5+Ni+Cu)/15

We state on our sole responsibility that the delivered products are in conformity with the order requirements.

Quality Control Representative
Fiz. Antonica Sergiu

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		Dimensions: 323.90 x 25.40 mm 12.750 x 1.000 inch		Schedule: XXS/120		Length: 9.00 - 11.00 m		29.53 - 36.09 feet	
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		6	205	2970	20.5	5			

Tensile Test

Heat	Orientation	Length		Width/Diameter		Thickness		Section		Mechanical test Bulletin No.	YS MPa	YS (PSI:1000)	UTS MPa	UTS (PSI:1000)	E %	YS/UTS max: -
		mm	inch	mm	inch	mm	inch	mm ²	inch ²							
1192428	Longitudinal Round	50.8	2	12.30	0.484	0.00	0.000	118.8	4.677	19-3722	330.00	47.9	489.00	70.9	41.00	0.67
1192428	Longitudinal Round	50.8	2	12.50	0.492	0.00	0.000	122.7	4.831	19-3968	348.00	50.5	548.00	79.5	35.50	0.64
456476	Longitudinal Round	50.8	2	12.50	0.492	0.00	0.000	122.7	4.831	19-4895	324.00	47.0	539.00	78.2	36.50	0.60

Hardness Test

Heat	Hardness Test Bulletin No.	HB max.-	HV 10 max.-	HV 10 max.-					HRC max.22
				OD	Midwall	ID	End A	End B	
1192428	19-2869	-	-	-	-	-	-	-	<20
456476	19-3350	-	-	-	-	-	-	-	<20

Technological/Microstructure Test


Heat	Flattening Test Bulletin No.	Flattening Test
1192428	19-3396	OK
1192428	19-3615	OK
456476	19-4316	OK

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Formular 12A, rev.9

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		Hydro Test:		Bar		PSI		MPa	
				205		2970		20.5	
								Time(sec)	
								5	
								Steel Grade: X42/B/C	

Heat

Heat	Pieces	Length (m)	Weight (kg)
1192428	1	-	-
456476	24	-	-

Remarks PIPES IN COMPLIANCE WITH PED: 2014-68-EU/15.05.2014, ANNEX 1, SECTION 4.3.
 Manufacturing process – hot rolling.
 Hot finished, steel is fully killed and produced by electric furnace, country of origin is Romania and country of melt is LLC " INTERPIPE UKRAINE " Pisarzhevskogo str., 1a, 49005, Dnepropetrovsk, Ukraine, Acciaierie Bertoli Safau S.p.A. Via Buttrio 28 - Frazione Cargnacco 33050 POZZUOLO DEL FRIULI (UD) - Italy.
 Visual inspection and dimensional check without objection.
 Hydrostatic test hold for 5 sec. no leakage noticed.
 The products was manufactured, sampled, tested, marked and inspected in accordance with the Standards, the supplementary requirements, and any other requirements designated in the purchase order, and has been found to meet such requirements.

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