

Manufacturer:
 AccelorMittal Tubular Products Roman S.A.
 STEFAN CEL MARE ST. 15A/1 ROMANI, NEAMT
 COUNTY, ROMANIA

MILL TEST CERTIFICATE
 according to EN 10204/3.1/2004

Buyer:

SEAMLESS STEEL PIPES

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 30.04.2015

AccelorMittal

Buyer's AMI ORDER: 10089933
 reference PO NUMBER: P14007
 Contract 50001978

Standard: API 5L - ed 45-2012 - PSL 1, ASTM A 106/A 106M-2014, ASME SA 106/SA 106M-2013, NACE MR 0103-2012, NACE MR 0175/ISO 15156-2:009, NACE MR 0103-2012.

Dimensions: 323.80 x 21.44 mm
 12.750 x 0.844 inch

Schedule: 100

Length: 11.00 - 12.50 m
 36.09 - 41.01 feet

Item 2 Item Client

Hydro Test: Bar 205

PSI 2970

MPa 20.5

Time(sec) 5

Steel Grade: B / X42 / C

Total weight: 15.702 tons
 34 617 lbs
 Total Length: 98.23 meters
 322.30 feet
 Pieces 8
 Bundles -

Chemical Analysis(%)

Heat No	Bulletin No	Product Req	C		Mn	Si	S	P	Cr	Ni	Cu	Mo	V	Nb	Ti	B
			Max	Min												
802675		Heat analysis	0.28	0.29	1.06	0.10	0.030	0.030	0.40	0.40	0.40	0.15	-	-	-	0.0010
802675	15-528	Product analysis	0.18	1.09	0.22	0.004	0.010	0.13	0.08	0.16	0.04	0.004	0.002	0.002	0.002	0.0001
802675	15-528	Product analysis	0.18	1.06	0.23	0.005	0.010	0.12	0.06	0.15	0.02	0.002	0.002	0.002	0.000	0.0000
802675	15-528	Product analysis	0.18	1.05	0.23	0.005	0.010	0.12	0.06	0.15	0.02	0.002	0.002	0.002	0.000	0.0000

Chemical Analysis(%)

Heat No	Bulletin No	Product Req	Nb + V		Nb + Ti + V		Cr + Mo + Ni + Cu + V	
			Max	Min	Max	Min	Max	Min
802675		Heat analysis	0.006	-	0.150	-	1.000	-
802675	15-528	Product analysis	0.004	0.004	0.008	0.414	0.352	0.352
802675	15-528	Product analysis	0.004	0.004	0.004	0.352	0.352	0.352

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							
802675	Longitudinal Round	50.8	2	12.50	0.492	0.00	0.000	122.7	4.831	15-985	321.00	46.6	529.00	76.7	29.70	0.61

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

Formular 12A, rev.9

Quality Control Representative
 Eng. Iesanu Cristian



Manufacturer:
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 ArcelorMittal

SEAMLESS STEEL PIPES

Total weight:	Total Length:	Pieces	Bundles
15.702 tons	98.23 meters	8	-
34 617 lbs	322.30 feet		

Standard: API 5L-ed 45-2012 - PSL 1; ASTM A106/A 106M-2014; ASME SA 106/SA 106M-2013; NACE MR 0103-2012; NACE MR 0175/ISO 15156-2009; NACE MR 0103-2012.

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 PO NUMBER: P14007
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Item	Item Client	Dimensions:	Schedule:	Length:	Steel Grade:
2	-	323.80 x 21.44 mm 12.750 x 0.844 inch	100	11.00 - 12.50 m	B / X42 / C
Hydro Test:	Bar	PSI	MPa	Time(sec)	
	205	2970	20.5	5	

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
802675	15-743	-	-	-	-	-	-	-	<22

Technological/Microstructure Test

Heat	Flattening Test Bulletin No.	Flattening Test
802675	15-783	OK

Heat

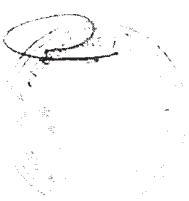
Heat	Pieces	Length (m)	Weight (kg)
802675	8	-	-

Remarks

Manufacturing process – hot rolling.
 Steel is fully killed and produced by electric furnace. ABS Sisak d.o.o B.Kavurica 12.44010 Sisak Republica Hrvatska
 Hydrostatic test hold for min. 5 sec. no leakage noticed.
 "Pipes are mercury free" & "No weld repairs"
 For each reduction of 0.01 % below the specified carbon maximum, on increase of 0.05% manganese above the specified maximum will be permitted up to a maximum of 1.35 %.

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ArcelorMittal

SEAMLESS STEEL PIPES

Total weight: 5.763 tons
12.705 lbs
Total Length: 36.05 meters
118.28 feet
Pieces: 3
Bundles: -

Buyer's AMI ORDER: 10089933
reference PO NUMBER: P14007

Standard: API 5L-ec45-2012-PSL 1: ASTM A106/A 106M-2014; ASME SA 106/SA 106M-2013; NACE MR 0103-2012. NACE MR 0175/ISO 15156-2-2009.
NACE MR 0103-2012.

Dimensions: 323.80 x 21.44 mm
12.750 x 0.844 inch
Schedule: 100
Length: 11.00 - 12.50 m
36.09 - 41.01 feet

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

Chemical Analysis(%)

Heat	Bulletin No.	Product Req.	C		Mn		Si		S		P		Cr		Ni		Cu		Mo		V		Nb		Ti		B		
			Max	Min	0.28	1.06	-	0.030	0.030	0.40	0.40	0.40	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802675		Heat analysis	0.18	1.09	0.22	0.004	0.010	0.13	0.08	0.16	0.04	0.004	0.002	0.002	0.0001														
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ArcelorMittal

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	12.705 lbs		118.28 feet				

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Dimensions:	323.80 x 21.44 mm	Schedule:	100	Length:	11.00 - 12.50 m	36.09 - 41.01 feet			
Hydro Test:	12.750 x 0.844 inch	PSI	2970	MPa	20.5	Time(sec)	5	Steel Grade:	B / X42 / C
Item	2	Item Client	-						

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