

Heat: 2203211
Your PO: PO242284-01

Order: 3118765 Line: 3
Item: 3" STD 0.216" PIPE SMLS A53/API5L/A106 GR B/X-42 PEB SRL

**ArcelorMittal South Africa Limited
Tubular Products**

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MATERIAL TEST CERTIFICATE

EN10204: 2004 Type 3.1
Licensed under

API 5L
API 5CT
ISO 9901:2015
PED 2014/08/EU

Steelmaking Facility
ArcelorMittal South Africa Ltd
Iscor Road
Newcastle 2940
PO Box, Newcastle 2940
South Africa



Customer (A06):		Contract No./Customer Order (A07):	SUSO 178445
Order No (A08):	4000029549	Material No:	1000042253
Certificate Reference No (A03):	040062820841	Cast/Heat No (B07):	2203211
Product (B01):	FULLY KILLED HOT FINISHED CARBON STEEL SEAMLESS TUBES		
Specification (B02):	API 5L: 18 B/X42 PSL1 ISO 3183: 19 L245/L290 ASTM A106B/C/A53B/A530: 18 ASME SA106B/C//SA530: 17		
Product Marking (B06):	ARCELORMITTAL SA API Spec 5L-0319 MONOGRAM 11-22 ISO 3183 L245/L290 PSL1 ASTM/ASME A/SA106B/C A/SA53B 3.500 0.216 40.027 B/X42 PSL1 SMLS CAST NO: 2203211 PROD/ONO: T0942954910 NDE TESTED 3000 psi MADE IN RSA		

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General Information:

Quantity (B08)	Mass (B12)	Dimensions (B09-B11)			Total Length	Steel making process (C70)	Final Rolling Operation (B04) As Rolled
		Tube OD	Thickness	Length			
247(ea)	75,020.752(lb)	3.500(in)	0.216(in)	40.027(ft)	9,886.669(ft)	Basic Oxygen Furnace	Final hot rolling finished above 1580°F and cooled in still air

Chemical Composition: (C71-C92) R05-(Cr+Ni+Mo+Cu+V)

Element(%)	R05-(Cr+Ni+Mo+Cu+V)					R22-(V+Nb+Ti)					R24-(Nb+V)									
	C	Si	Mn	S	P	Cr	Ni	Mo	Cu	V	Al	Ti	Sn	Ca	N	B	Nb	CE	R22	R24
Minimum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.43	-	-
Maximum	0.200	-	1.30	0.030	0.030	0.40	0.40	0.150	0.400	-	-	-	-	-	-	-	-	0.43	-	-
Heat	0.100	0.22	1.26	0.004	0.012	0.03	0.02	0.001	0.011	0.035	0.037	0.001	0.003	0.0013	0.0086	0.0005	0.0120	0.33	-	-
Product	0.12	0.25	1.22	0.007	0.014	0.03	0.02	0.005	0.010	0.036	0.032	0.000	0.002	0.0020	0.0049	0.0005	0.0110	0.34	0.047	0.047
Product (ADD)	0.11	0.25	1.23	0.007	0.014	0.03	0.02	0.005	0.010	0.036	0.030	0.001	0.001	0.0018	0.0073	0.0005	0.0110	0.33	0.048	0.047

Mechanical Properties:

Orientation and type of tensile test (C02): Longitudinal, Strip; 0.744 inch

Orientation of impact test piece (C41):

Specification Limits	UTS (Rm) C12 psi	Yield (0.2%) C1 psi	%EL C13 2 inch	OTHER TESTS		OTHER TESTS	
				Category	Results	Category	Results
Minimum	70 000	42 100	30.0	Flattening (D51-D99)	PASSED	NDI: EMI (D02-D50)	PASS - ASTM E570 - 12.5% NOTCH
Maximum	-	-	-	Hydrostatic (D02-D50)	20700 kPa (3000 psi) - 5 sec	NDI: UT (D02-D50)	UT not required
(1) Actual	70 779	57 580	32.0			HV 22 lbs C31	153 / 155 / 155
(2) Actual	73 824	59 321	34.0				

Remarks (Z01):

Material conforms to the visual and dimensional requirements and is made to a suitable fine grain practice. ArcelorMittal SA Tubular Products operates a QA System meeting the requirements of PED 2014/68/EU, Annex I, Par. 4.3 and AD 2000-Merkblatt W0, certified by TÜV Rheinland Industrie Service GmbH, Certificate No. 01 202 ZA/Q-02 0004.

Result values reported were converted from standard SI test results.

Quality Assurance Engineer, Certification: M Makgoba

Date of Release: 2022.11.09

Certified by:

We hereby certify that the material was manufactured, tested and inspected to and fully comply with the requirements of referenced specifications. No changes, amendments or additions may be made to this document. Any changes which are effected shall invalidate this certificate.