

Heat: 2302514
Your PO: PO246382-01

Order: 3312829 Line: 1
Item: 5" STD 0.258" 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
ISO9001:2015
PED2014/08/EU

**Steelmaking Facility
ArcelorMittal South Africa Ltd**

Iscor Road
Newcastle 2940
PO Box, Newcastle 2940
South Africa



Customer (A06):	Contract No/Customer Order (A07):	SUS3 180315
Order No (A08):	Material No:	1000044832
Certificate Reference No (A03): 040062837908	Cast/Heat No (B07):	2302514
Product (B01): FULLY KILLED HOT FINISHED CARBON STEEL SEAMLESS TUBES	Page 1 of 1	
Specification (B02): API5L:18 B/X42 PSL1 ISO3183:19 L245/L290 ASTM A106B/C:19 A53B:22 A530:18 ASME SA106B/C//SA530:21		
Product Marking (B06): ARCELORMITTAL SA API Spec 5L-0319 MONOGRAM 05-23 ISO3183 L245/L290 PSL1 ASTM/ASME A/SA106B/C A/SA53B 5.563 0.500 20.014 B/X42 PSL1 SMLS CAST NO: 2302514 PROD/ONO: T0242988110 TESTED 3000 psi 541.7 lbs NDE MADE IN RSA		

General Information:

Quantity (B08)	Mass (B12)	Dimensions (B09-B11)			Total Length
		Tube OD	Thickness	Length	
27(ea)	14,623.905(lb)	5.563(")	0.500(")	20.014(ft)	540.378(ft)

Steel making process (C70)	Final Rolling Operation (B04) As Rolled
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) R22-(V+Nb+Ti) R24-(Nb+V)

Element(%)	C	Si	Mn	S	P	Cr	Ni	Mo	Cu	V	Al	Ti	Sn	Ca	N	B	Nb	CE	R22	R24
Minimum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maximum	0.200		1.30	0.030	0.030	0.40	0.40	0.150	0.400									0.43		
Heat	0.110	0.23	1.17	0.005	0.001	0.03	0.01	0.001	0.012	0.043	0.027	0.002	0.002	0.0021	0.0088	0.0005	0.0010	0.32		
Product	0.09	0.22	1.22	0.006	0.008	0.03	0.02	0.003	0.010	0.041	0.027	0.000	0.000	0.0013	0.0072	0.0003	0.0010	0.31	0.042	0.042
Product (ADD)	0.09	0.22	1.20	0.004	0.008	0.03	0.02	0.003	0.010	0.041	0.027	0.000	0.000	0.0013	0.0067	0.0004	0.0010	0.31	0.042	0.042

Mechanical Properties:

Orientation and type of tensile test (C02): Longitudinal, Strip, 1 Inch

Orientation of impact test piece (C41):

Specification Limits	UTS (Rm) C12 psi	Yield (0.2%) C1 psi	%EL C13 2 inch
Minimum	70 000	42 100	30.0
Maximum	-	-	-
(1) Actual	78 030	61 061	37.0
(2) Actual	79 771	63 527	40.0

OTHER TESTS	
Category	Results
Flattening (D51-D99)	PASSED
Hydrostatic (D02-D50)	20700 kPa (3000 psi) - 5 sec

OTHER TESTS	
Category	Results
NDI: EMI (D02-D50)	PASS - ASTM E570 - 12.5% NOTCH
NDI: UT (D02-D50)	UT not required
HV 22 lbs C31	168 169 171

Remarks (Z01):

Material in accordance with NACE MR0175/ISO15156-2:21, MR0103:15. Dimensions to ASME B36.10:22. End finish to ASME B16.25:17. Material guaranteed to conform to the yield strength requirements as per ASME, Sect II, Pt D, Table Y-1, 2021. Material conforms to the visual and dimensional requirements and is made to a suitable fine grain practice. Product is mercury free, and no weld repair was done. Residual magnetism <30Gs at time of measure. 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: 2023.05.23

Certified by: