

Heat: 38B2758
Your PO: PO244231-15

Order: 3207575 Line: 1
Item: 5" STD 0.258" PIPE SMLS A53/API5L/A106 GR B/X-42 PEB DRL

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 9001:2015
PED 2014/08/EU

Steelmaking Facility

ArcelorMittal South Africa Ltd
Mario Milani Road, Peacehaven
Vereeniging 1939
PO Box 48, Vereeniging 1930
South Africa



Customer (A06):		Contract No/Customer Order (A07):	SUSD 179239
Order No (A08):	4000029642	Material No:	1000042311
Certificate Reference No (A03):	040062821768	Cast/Heat No (B07):	38B2758
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 5.563 0.258 40.027 B/X42 PSL1 SMLS CAST NO: 38B2758 PROD/ONO: T1142964210 TESTED 3000 psi 585.3 lbs NDE MADE IN RSA		

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General Information:

Quantity (B08)	Mass (B12)	Dimensions (B09-B11)			Total Length
		Tube OD	Thickness	Length	
50(ea)	29,270.474(lb)	5.563(in)	0.258(in)	40.027(ft)	2,001.350(ft)

Steel making process (C70)	Final Rolling Operation (B04)
Electric Arc	As Rolled 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	0.137	0.31	1.21	0.004	0.006	0.06	0.10	0.034	0.100	0.004	0.034	0.017	0.005	0.0006	0.0106	0.0004	0.0270	0.37		
Product	0.14	0.28	1.25	0.005	0.006	0.06	0.12	0.032	0.100	0.041	0.032	0.016	0.005	0.0014	0.0100	0.0003	0.0010	0.39	0.058	0.042
Product (ADD)	0.14	0.28	1.24	0.005	0.007	0.06	0.12	0.032	0.100	0.003	0.030	0.016	0.005	0.0014	0.0151	0.0003	0.0260	0.38	0.045	0.029

Mechanical Properties:

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

Orientation of impact test piece (C41):

Specification Limits	UTS (Rm) C12	Yield (0.2%) C1	%EL C13
	psi	psi	2 inch
Minimum	70 000	42 100	30.0
Maximum			
(1) Actual	75 565	58 450	32.0
(2) Actual	76 870	60 191	34.0

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	163 163 166

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: 2022.11.18

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.