



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

MATERIAL TEST CERTIFICATE

ArcelorMittal South Africa Limited
Tubular Products

EN10204: 2004 Type 3.1

Licensed under

API 5L
 API 5CT
 ISO 9001:2015
 PED 2014/06/EU

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Order No (A08): 4000029017

Certificate Reference No (A03): 040062790594

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//SA53B/SA530:17

Product Marking (B06): ARCELORMITTAL SA API Spec 5L-0319 MONOGRAM 02-22 ISO3183 L245/L290 PSL1 ASTM/ASME A/SA106B/C A53B 2.875 0.203 40.027

Contract No./Customer Order (A07): SUS1175965

Material No: 1000042286

Cast/Heat No (B07): 38B0806

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General Information:

Quantity (B08)	Mass (B12)	Dimensions (B09-B11)		Total Length
		Tube OD	Thickness	
133 (ea)	30,881,067 (lb)	2.875 (")	0.203 (")	40.027 (ft)
				5,323.591 (ft)

Steel making process (C70)

Electric Arc	Final Rolling Operation (B04): As Rolled
	Final hot rolling finished above 1580°F and cooled in still air

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

Element (%)	R22-(V+Nb+Ti)										R24-(Nb+V)								
	C	Si	Mn	P	Cr	Ni	Mo	Cu	V	Al	Ti	Sn	Ca	N	B	Nb	CE	R22	R24
Minimum	0.200	0.130	0.030	0.030	0.40	0.40	0.150	0.400									0.43		
Maximum	0.133	0.31	1.22	0.004	0.005	0.06	0.019	0.170	0.004	0.040	0.018	0.009	0.0020	0.0094	0.0004	0.0270	0.37		
Heat	0.13	0.34	1.21	0.004	0.009	0.06	0.029	0.160	0.003	0.033	0.017	0.008	0.0017	0.0090	0.0003	0.0290	0.37	0.049	0.032
Product (ADD)	0.13	0.34	1.21	0.004	0.009	0.06	0.029	0.160	0.003	0.032	0.017	0.007	0.0014	0.0095	0.0003	0.0290	0.37	0.049	0.032

Mechanical Properties:

Specification Limits	UTS (Rm) C12		Yield (0.2% C1)		%EL C13	
	psi	psi	psi	2 inch	2 inch	30.0
Minimum	70 000	42 100	60 481	33.0		
Maximum			62 076	35.0		
(1) Actual						
(2) Actual						

Orientation and type of tensile test (C02): Longitudinal, Strip, 0.765 inch

OTHER TESTS

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

OTHER TESTS

Category	Results
EMI (D02-D50)	PASS - ASTM E570 - 12.5% NOTCH
NDI: UT (D02-D50)	UT not required
HV 22 lbs C31	173 175 175

Remarks (Z01):

Material in accordance with NACE MR0175:15/ISO15156-2:15, MR0103:15, Dimensions to ASME B36.10:15. 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: 2022.02.08

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.