

ArcelorMittal South Africa Limited
Tubular Products
 273 Genl. Hertzog Rd
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 South Africa

EN10204: 2004 Type 3.1
 Licensed under
 API 5L
 API 5CT
 ISO9001:2015
 PED2014/08/EN

Steelmaking Facility
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Customer (A06): 40000295336
 Order No (A08): 040062820444
 Certificate Reference No (A03): 040062820444
 Product (B01): FULLY KILLED HOT FINISHED CARBON STEEL SEAMLESS TUBES
 Specification (B02): API 5L: 18 B/X42 PS1 ISO3183:19 I245/L290 ASTM A106B/C/A53B/A530:18 ASME SA106B/C//SA530:17
 Product Marking (B06): ARCELORMITTAL SA API Spec 5L-0319 MONOGRAM 10-22 ISO3183 I245/L290 PS1 ASTM/ASME A/SA106B/C A/SA53B 3.500 0.300
 20.014 B/X42 PS1 SMLS CAST NO: 38B2753 PROD/ONO: T0942953610 NDE TESTED 3000 Psi MADE IN RSA

Contract No./Customer Order (A07): SUSA 178388
 Material No: 1000042254
 Cast/Heat No (B07): 38B2753

General Information:

Quantity (B08)	Mass (B12)	Dimensions (B09-B11)		Total Length	Steel making process (C70)	Final Rolling Operation (B04)
		Tube OD	Thickness			
287 (ea)	58,950,541 (lb)	3.500" ±	0.390" ±	20,014 (ft)	Electric Arc	Final hot rolling finished above 1580°F and cooled in still air

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

Element(%)	C	Si	Mn	S	P	Cr	Ni	Mo	Cu	V	Al	Ti	Sn	Ca	N	B	Nb	CE	R22	R24
Minimum	0.200	-	1.30	0.030	0.030	0.40	0.40	0.150	0.400	-	-	-	-	-	-	-	-	-	-	-
Maximum	0.127	0.31	1.21	0.008	0.008	0.09	0.06	0.017	0.090	0.005	0.025	0.013	0.004	0.0007	0.0096	0.0004	0.0290	0.36	0.43	-
Heat	0.10	0.26	1.20	0.008	0.012	0.10	0.05	0.022	0.090	0.004	0.022	0.013	0.004	0.0018	0.0085	0.0003	0.0260	0.33	0.043	0.030
Product (ADD)	0.09	0.26	1.21	0.009	0.013	0.10	0.05	0.022	0.090	0.005	0.022	0.012	0.006	0.0018	0.0090	0.0003	0.0260	0.33	0.043	0.031

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	
				Category	Results
Minimum	70 000	42 100	30.0	Flattening (D51-D99)	PASSED
Maximum	-	-	-	Hydrostatic (D02-D50)	20700 kPa (3000 psi) - 5 sec
(1) Actual	73 534	56 855	40.0		
(2) Actual	73 969	57 580	42.0		

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 2009-Merkblatt W0, certified by TÜV Rheinland Industrie Service GmbH, Certificate No. 01 202 ZAQ-02 0004.
 Result values reported were converted from standard SI test results.

Quality Assurance Engineer, Certification: M Makgoba

Date of Release: 2022.11.01

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.

M Makgoba