

MATERIAL TEST CERTIFICATE SEAMLESS TUBE

CERTIFICATE DE RECEPTION - TUBES D'ACIER SANS SOUDURE
NAHMEPRÜFZEUGNIS - NAHTLOSE STAHLROHRE

ArcelorMittal South Africa Limited
Tubular Products

273 Genl. Hertzog Rd
Peacehaven Vereeniging, 1939
PO Box 48 Vereeniging 1930
South Africa

Telephone +27 (0)16 450 4220
Fax +27 (0)16 423 4906

EN10204: 2004 TYPE 3.2
Licensed under

API5L
API5L
ISO9001:2015
PED/014/08/EU

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



Customer (A06):
Client:
Kunde:

Order No (A08): **4000028398**
No. de commande Mittal:
Mittal-Auftrags-Nr.

Certificate Reference No (A03): **040062767876**
No de certificat:
Zeugnis-Nr.

Product (B01): **FULLY KILLED HOT FINISHED CARBON STEEL SEAMLESS TUBES**
Produit:
Produkt:

Specification (B02): **API5L:18 B/X42 PSL1 ISO3183:19 L245/L290 ASTM A106B/C:18 A53B/A530:18 ASME SA106B/C//SA53B/SA530:17**
Spécification:
Angabe:

Product Marking (B06): **ARCELORMITTAL SA API Spec 5L-0319 MONOGRAM 06-21 ISO3183 L245/L290 PSL1 ASTM/ASME A/SA106B/C A53B 3.500.0.300 40.027**
Langage de produit:
Produktkennzeichnung:

Customer Order/Contract No (A07): **SUS6 173636**
No de commande client:
Kundenauftrags-Nr.
Material No: **1000042255**
No de matériau:
Werkstoff-Nr.
Cast/Heat No (B07): **28B9422**
Coulée No:
Schmelzen-Nr.

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General Information:

Information Générale:
Allgemeine Information:

Quantity (B08) Quantité Menge	Mass (B12) Poids Gewicht	Dimensions (B09-B11) Dimensions / Maße			Total Length Longueur Länge
		Tube OD Diamètre Durchschnitt	Thickness Épaisseur Stärke	Length Longueur Länge	
193(ea)	79 281 142(lb)	3.500(")	0.300(")	40.027(ft)	7,725 211(ft)

Steel making process (C70) Procédé de fabrication de l'acier Stahlerhmelzungsverfahren	Final Rolling Operation (B04) As Rolled Fin de laminage Walzen
Electric Arc	Final hot rolling finished above 1580°F and cooled in still air

Chemical Composition: (C71-C92)

R22-(V+Nb+Ti)

R24-(Nb+V)

Analyse sur coulée Schmelzanalyse

Element(%)	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											
Heat	0.131	0.30	1.20	0.004	0.003	0.07	0.09	0.042	0.080	0.002	0.029	0.018	0.005	0.0013	0.0090	0.0004	0.0310	0.37		
Product	0.14	0.34	1.21	0.005	0.009	0.06	0.08	0.024	0.070	0.003	0.032	0.015	0.004	0.0022	0.0066	0.0005	0.0300	0.37	0.048	0.033
Product(ADD)	0.14	0.33	1.19	0.005	0.009	0.06	0.08	0.023	0.070	0.003	0.034	0.015	0.004	0.0018	0.0063	0.0005	0.0290	0.36	0.047	0.032

Quality Assurance Engineer, Certification: **M Makgoba**

Date of Release: **2021.06.23**

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.
Nous certifions que le matériel a été fabriqué, testé et inspecté et se conforme pleinement aux exigences des spécifications référencées. Il est interdit de modifier ou de corriger ce document ou d'y ajouter quoi que ce soit. Tout changement invalide le présent certificat.
Wir bestätigen hiermit, daß das Material wurde hergestellt, geprüft und inspiziert und voll mit den Anforderungen der referenzierten Spezifikationen. Diese Unterlage darf in keiner Weise geändert, abgeändert oder ergänzt werden. Jede derartige Änderung wird die Gültigkeit dieser Bescheinigung aufheben.

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Customer (A06): Client: Kunde:		Customer Order/Contract No (A07):	SUS6 173636
Order No (A08): No. de commande Mittal: Mittal-Auftrags-Nr:	4000028398	Material No: No. de matériau: Werkstoff-Nr:	1000042255
Certificate Reference No (A03): No. de certificat: Zeugnis-Nr:	040062767876	Cast/Heat No (B07): Coulée No: Schmelzen-Nr:	28B9422
Product (B01): Produit: Produkt:	FULLY KILLED HOT FINISHED CARBON STEEL SEAMLESS TUBES		
Specification (B02): Spécification: Angabe:	API 5L: 18 B/X42 PSL1 ISO 3183:19 L245/L290 ASTM A106B/C: 18 A53B/A530: 18 ASME SA106B/C//SA53B/SA530: 17		
Product Marking (B06): Larguage de produit: Produktkennzeichnung:	ARCELORMITTAL SA API Spec 5L-0319 MONOGRAM 06-21 ISO 3183 L245/L290 PSL1 ASTM/ASME A/SA106B/C A53B 3.500 0.300 40.027 B/X42 PSL1 SMLS CAST NO: 28B9422 PROD/ONO: T0542839810 NDE TESTED 3000 psi MADE IN RSA		

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Mechanical Properties at Room Temperature 72°F

Propriétés Mécaniques à température ambiante 72°F
Méchanische Eigenschaften bei Raumtemperatur 72°F

* Elongation to BS EN ISO 2566 table 7: 5.65 %S₀

Elongation su BS EN ISO 2566 table 7: 5.65 %S₀
Verlängerung zu BS EN ISO 2566 Tabelle 7: 5.65 %S₀

Orientation and width of tensile piece C02: Longitudinal, Strip, 0.754 inch
Orientation de la poutre de tension, Largeur de l'échantillon
Richtung und Breite der Zugprobe

Orientation of impact test piece (C41):
Orientation de la poutre de choc
Richtung des Probestücks

Specification Spécification Angabe	UTS (Rm) C12 Force de tension Zugfestigkeit	Yield (Rs) C11 Limit élastique Fließgrenze	% EL C13 Allong. Dehnu.	% EL Allong. Dehnu.
Limits Limites Grenze	psi	psi	2 Inch	5.65 %S ₀
Minimum	70 000	42 100	30.00	
Maximum	-	-	-	-
Sample (1)	77 160	58 740	33.00	29.00
Sample (2)	79 191	60 771	35.00	31.00

TECHNOLOGICAL TESTS EPREUVES TECHNOLOGIQUES TECHNISCHE PRÜFUNGEN	
Flattening Test (D51-D99) Essai d'aplatissement Ringfaltversuch	PASSED
Hydrostatic (D02-D50) Hydrostatique Hydrostatisch	20700 kPa (3000 psi) - 5.sec
Electromagnetic Insp (D02-D50) Inspection électromagnétique Elektromagnetische Prüfung	PASS - ASTM E570 - 12.5% NOTCH

TECHNOLOGICAL TESTS EPREUVES TECHNOLOGIQUES TECHNISCHE PRÜFUNGEN	
Ultrasonic inspection (D02-D50) Inspection ultrasonique Ultraschallprüfung	UT not required
Hardness (HV-22lbs) C31 Dureté Härte	167 167 169

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Remarks (Z01):

Remarque:
Bemerkung:

Material in accordance with NACE MR0175:2015/ISO15156-2:2015/ISO 17945:2015 and MR0103:2015. Dimensions to ASME B36.10-2017. End finish according to ASME B16.25:17.
Material conforms to the hot yield strength requirements as per ASME, Sect II, Part D, Table Y-1, and the general requirements of ASME, Sect II, Part A, Ed 2017. Material conforms to AD 2000-Merkblatt W4.
Material conforms to the visual inspection and dimensional tolerance requirements of the specification. A suitable fine grain practice is followed in manufacturing. Residual magnetism measure before shipment was less than 30Gs.
La Société ArcelorMittal South Africa garantit que les produits objet du présent certificat, respectent en leur totalité les prescriptions de l'Article 15 de l'Arrêté Ministériel du 24 mars 1978 modifié.
C<=0.25%, P<=0.05%, R<=700N/mm², E<=0.9xR
A%(Lo=5.65VSo) min.16% en long; R(A-2)>=10500
A%(Lo=5.65VSo) min.16% en transv. RxA>=10500
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.
Non-harmonized materials require Particular Material Appraisal. The impact strength is guaranteed to exceed 27J at 0°C (transverse).

Result values reported were converted from standard SI test results.

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