

SN #6292-01 TO 04.



CERTIFICATE - ZEUGNIS - CERTIFICAT

Invoice No. / Rechnung Nr. / N° de facture
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EN 10204 - 3.1
20081203-EN-0

Business Unit / QCM: BA Quarto Plate, Quarto Plate Europe
Date / Datum / Date: 26-Aug-2020
Load, Ladung, Charge No: 210540
Acknowledged ID, Bestätigung, Commande ID: 360019426

Your ref, Ihre Ref., Votre ref 10047 REV 00		Requirements, Anforderungen, Exigences SAE AMS 5524 REV.L SAE AMS 5507 REV.H JMS US Material Specification for Stainless Steel plates REV 13 ASME SA-240M Code Sect. II, Part A:2019 ASTM A240M / NACE MR0175/ ISO 15156-3:19/2015 NACE MR0103 / ISO 17945:2015 Co content shall be mentioned in certificates	
Buyer, Besteller, Acheteur Quarto North America LLC 500 Keystone Drive 19468, Limerick, Pennsylvania USA			
Consignee, Empfänger, Lieu de livraison Quarto North America LLC			

Mark of Manufacturer Zeichen des Lieferwerkes Signe de producteur 	Process Erschmelzungsart Mode de fusion E+AOD	Inspector's stamp Zeichen des Sachverständigen Poinçon de l'expert 	Grade, Werkstoff, Nuance 316 316L SAE 30316
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Product, Erzeugnisform, Produit
Stainless steel hot rolled, Plate, 1D/No.1, Cut edge

Line Reihe Ligne	Item Position Poste	Heat-Lot No Schmelze-Lot Nr Coulée n° - Lot No	Size Abmessungen Dimensions	Pieces Stückzahl Nombre	Quantity/unit, Menge/Einheit, Quantité/Unité
1	5	200755-397744:0	114,3 X 2006,0 X 4572,0 mm	2	

Plate No, Blech Nr, Tôle No
1 9952 2301,-2401

Chemical composition - Chemische Zusammensetzung - Composition chimique %
Heat - Schmelze - coulée No

	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Co	N
Min						16.00	10.00	2.00			
Max	0.030	0.75	2.00	0.040	0.030	18.00	14.00	3.00	0.75		0.10
200755	0.019	0.46	1.38	0.030	0.002	17.04	10.06	2.04	0.55	0.2630	0.05

Distribution
Certificate via e-Services

Direct. T = Transverse, L = Longitudinal
Top/Bot F = Front, B = Back
Form P = Flal, C = Round
Location 1 = Center, 2 = Close to Surface, 3 = Standard, 4 = At 1/4 of thickness

Test results - Prüfergebnisse - Résultats des essais (1N/mm² = 1MPa)

Chemical composition
Productanalysis ASTM A480/A480M

Plate-no	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	N
2701	0.020	0.47	1.37	0.030	0.000	17.02	10.00	2.04	0.54	0.05

Mechanical properties
Tensile testing/Hardness Rockwell B

Plate-no	Direct.	Top/Bot	Location	Form	Temp. °C	Rp 0,2 MPa	Rm MPa	A50 %	HRB
Min						207	517	45	HRB
Max						689	531	64	95
2401	T	F	4	C	20	244	531	64	75

Corrosion
ASTM A262 Practice E
Plate-no Result
1101F OK

Metallographic testing
ASTM A262 Practice A
Plate-no Result
2701F OK

The results comply with the Requirements of the order - Die gestellten Anforderungen sind erfüllt! - Les résultats sont conformes aux exigences de la commande

Outokumpu Stainless AB
BA Quarto Plate, Quarto Plate Europe
SE, 693 81 DEGERFORS
SWEDEN
Regoffice: SWEDEN

V.A.T no: SE556001874801
Regno: 556001-8748

Computer generated original
Quality Inspector

Herbert Wasserfaller

4 1/2 x 79 x 180

2260



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Other Information

Country of origin (heat) :England

Solution annealed at 1050°C and Quenched in water.

Dimensional control, visual inspection and grade check (PMI): Approved

Material delivered in accordance with Outokumpu document - Control of Radioactive Contamination, dated 15 January 2020

No welding repairs have been performed.

Tolerance	Standard	Class
Flatness tolerance	ASTM A480	ASTM A480/A480M Plate
Length	Manual	0.0/+30.0 (mm)
Thickness	ASTM A480	ASTM A480/A480M only plus
Width	Manual	0.0/+30.0 (mm)

The results comply with the requirements of the order - Die gestellten Anforderungen sind erfüllt - Les résultats sont conformes aux exigences de la commande

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