

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
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 200755-397744:0	Size Abmessungen Dimensions 114,3 X 2006,0 X 4572,0 mm
			Pieces Stückzahl Nombre 2
			Quantity/unit, Menge/Einheit, Quantité/Unité
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			
Max	0.030	0.75	2.00
200755	0.019	0.46	1.38
	0.040	0.030	0.002
	18.00	14.00	17.04
	3.00	2.04	10.06
	0.75	0.2630	10.05
Distribution Certificate via e-Services		Direct. T = Transverse L = Longitudinal	Top/Bot F = Front B = Back
		Form P = Flat C = Round	Location 1 = Center 2 = Close to Surface 3 = Standard 4 = At ¼ of thickness
Test results - Prüfergebnisse - Résultats des essais (1N/mm² = 1MPa)			
<b>Chemical composition</b>			
Product analysis ASTM A480/A480M			
Plate-no	C	Si	Mn
	%	%	%
2701	0.020	0.47	1.37
	0.030	0.000	17.02
	10.00	2.04	10.00
	0.54	0.05	
<b>Mechanical properties</b>			
Tensile testing/Hardness Rockwell B			
Plate-no	Direct.	Top/Bot	Location
	Form	Temp. °C	Rp 0,2
			Rm
			A50
			HRB
Min			207
Max			517
2401	T	F	689
	4	C	531
	20	244	64
			75
<b>Corrosion</b>			
ASTM A262 Practice E			
Plate-no	Result		
1101F	OK		
<b>Metallographic testing</b>			
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



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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