

Business Unit / QCM

BA Quarto Plate, Quarto Plate Europe

Date Datum Date
30-Apr-2018

Load, Ladung, Charge No
169635

Acknowledged ID, Bestätigung, Commande ID
360014586

Your ref, Ihre Ref., Votre ref
23447 Rev 00

F13544
1" NPT F/F/F FXD TEE 10K 316L

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL

Requirements, Anforderungen, Exigences

EN 10088-4:2009
EN 10088-2:14
EN 10028-7, PED 2014/68/EU:16
ASME SA-240M Code Sect. II, Part A:2017
NACE MR0103 / ISO 17945:2015
ASTM A240M / NACE MR0175/ ISO 15156-3:17/2015
Technical specification 2017-04-27
Cu content shall be mentioned in certificates
Co content shall be mentioned in certificates
B content shall be mentioned in certificates

Consignee, Empfänger, Lieu de livraison

JACQUET (UK) LTD
ROCKINGHAM HOUSE

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

1.4401
1.4404

316
316L

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	14	580985-347718:0	60,0 X 2500,0 X 5000,0 mm	1	

Plate No, Blech Nr, Tôle No

1 6663 2301

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

	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Co	N	B
Min						16.5	10.0	2.00				
Max	0.030	0.75	2.00	0.045	0.015	18.0	13.0	2.50			0.10	
580985	0.017	0.46	1.22	0.030	0.001	17.0	10.0	2.03	0.3900	0.2200	0.05	0.0024

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 1/4 of thickness

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

Corrosion

EN ISO 3651-2 Method A/fulfil ASTM A262 Pr.E

Plate-no Result
2301F OK

Mechanical properties

Tensile testing/Hardness Rockwell B

Plate-no	Direct.	Top/Bot	Location	Form	Temp. °C	Rp 0.2 MPa	Rp 1.0 MPa	Rm MPa	A5 %	A50 %	HRB
Min						220	260	520	45	40	HRB
Max								670			95
2301	T	F	4	C	20,0	264	301	562	58	60	82

Charpy impact test (V-notch) EN ISO 148-1

Plate-no	Direct.	Top/Bot	Location	Form	Temp. °C	Value1 J	Value2 J	Value3 J	Average J	Lat ex1 mm	Lat ex2 mm	Lat ex3 mm
Min									60	0.38	0.38	0.38
Max												2.62
2301	T	F	4	P	20,0	373	378	378	376	2.49	2.53	2.62

Other Information

Heat treated at 1050°C and Quenched in water.

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

Verified true copy
of original certificate

ined: Date: 08.6.18

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