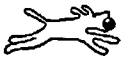


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 Despatched 09.01.2018 on Shipment 2780066 Delivery 817675257 Customer Ref. 990s
 Stainless Steel 316L Hot Rolled
 EN 10088-2
 12x1000x2000
 Batch: 0846845001

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
COPY OF ORIGINAL



		A04 MILL CERTIFICATE BS EN 10204/3.1 CERTIFICAT DE RECEPTION NF EN 10204/3.1 ABNAHMEPRUEFZEUGNIS DIN EN 10204/3.1		N-Nr-N 17K0041817-CE V01 A03	
A01 Correspondence address: Aperam Genk Swinnenwilerweg 5, Poort Genk 7523 3600 Genk, Belgium Tel. + 32 (0)89 30 21 11		A02 Factory Production Control certified by TUV SUD Industrie Service GmbH with certificate nr 0036-CPR-M-043-2011. In compliance with the Construction Product Regulation Nr 305/2011/EU.			
A05 Manufacturer's work order number N° de la commande usine productrice Werksauftragsnummer 80391585/01-32196/133/01		A06 Surveyor's mark Cachet de l'expert Stempel des Werkssachverständigen 	A07 Purchaser and/or consignee Client et/ou destinataire Besteller und/oder Empfänger APERAM SS&S BENELUX BOSDEL 87 87 3600 GENK BELGIE	A08 Purchaser's order number N° de commande client Kundenbestellnummer 705054326	
A09 Product - Produit - Erzeugnis COILS, HOT ROLLED, ANNEALED AND PICKLED COILS, LAMINE A CHAUD, RECUITS + DECAPE COILS, WARMGEWALZT, GEGLUEHT UND GEBEIZT		A10 Steel designation Désignation de l'acier Stahlbezeichnung EN: 10088-2-2009 1.4404(1.4401)		A11 Steelmaking process Mode d'élaboration de l'acier - Stahlherstellungsverfahren Prod. proces: Electric arc furnace - VOD/AOD - Continuous casting Proc. fabric: Four à arc - VOD/AOD - Coulée continue Fertigungsablauf: Elektro-Ofen - VOD/AOD - Stranggussanlage	
A12 Finish Présentation Ausführung ID		A13 Any supplementary requirements Prescriptions supplémentaires - Zusätzliche Anforderungen		A14 Product delivery condition Etat de livraison du produit - Lieferzustand Solution treated: Hypertempe: 1050 °C Lösungsgegl+ abgeschreckt Forced air-water/air forcé-eau Gebläse Luft-Wasser	
A15 Identification of the product Identification du produit - Identifizierung des Erzeugnisses MELTED IN BELGIUM, MADE IN BELGIUM		A16 Dimensions Dimensions - Abmessungen Thickness Epaisseur - Stärke 12.00 mm		A17 Width Largeur - Breite 2000.00 mm	
A18 Length Longueur - Länge		A19 Number of pieces Nb de pièces - Stückzahl 1		A20 Net weight Poids net - netto Gewicht 15450 KG	
A21 CHEMICAL ANALYSIS - ANALYSE CHIMIQUE - CHEMISCHE ZUSAMMENSETZUNG					
A22 Required - Exigé %mini Anforderung %maxi					
A23 Cast Analysis Analyse coulée Analyse Schmelze					
A24 Positive material identification carried out: OK Tests de vérification de la conformité de la nuance fournie: OK Verwechslungsprüfung wurde durchgeführt: OK					
A25 Location (1) MECHANICAL PROPERTIES - PROPRIETES MECANIQUES - MECHANISCHE WERTE EN ISO 6892-1 B / A-SA 370					
A26 Room temperature - Température ambiante - Raumtemperatur Test temperature (°C):					
A27 Direction (2) Required Exigé Anforderung mini maxi		A28 Yield or proof strength Limite d'élasticité Dehngrenze MPa		A29 Tensile Strength Résistance à la traction Zugfestigkeit MPa	
A30 Elongation after fracture Allongement après rupt. Bruchdehnung %		A31 Hardness Dureté Huerte		A32 Yield or proof strength Limite d'élasticité Dehngrenze MPa	
A33 Tensile str. Résist. Festigkeit MPa		A34 Elongation % Allongement Bruchdehnung			
A35 Impact strength test Essai de résilience Kerbschlagzähigkeitstest		A36 Corrosion test Test de corrosion Korrosionstest			
A37 EN ISO 3651/2 - A:OK					
A38 Location of the sample (1) Emplacement de l'échantillon Lage des Probenabchnittes 1. Front - Début - Anfang 2. Back - Fin - Ende 3. Middle - Milieu - Mitte					
A39 The delivery is in accordance with the order La fourniture est conforme aux exigences de la commande Die Lieferung entspricht den Bestellbedingungen					
A40 Packing list Avis d'expédition Lieferscheinnummer 2017048981-100414					
A41 Organisation inspection Organisme et/ou service contrôle Überwachungsabteilung Quality Department					
A42 Direction of the test pieces (2) Orientation des éprouvettes Probenrichtung T. Transverse - Travers - Quer L. Longitudinal - Long - Längs					
A43 Marking, inspection and measurement without objection Contrôle de marquage, d'aspect et de dimensions: satisfaisants Prüfung der Stempelung, des Oberflächaspekts und der Abmessungen: ohne Beanstandung					
A44 The Inspector Le responsable Der Werkssachverständige D. Raemaekers					
A45 15/9/2017					

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 Despatched 05.04.2018 on Shipment 9900005194 Delivery 818126335 Customer Ref. 11317
 Stainless Steel 316 / 316L Quarto Plate
 EN 10088-2
 Hot Rolled
 15x1250x2500
 Batch: 0008530111



high performance stainless steel

CERTIFICATE - ZEUGNIS - CERTIFICAT

EN 10204 - 3.1

17101428-EN-0

Invoice No.
Rechnung Nr.
N° de facture

Page
Seite
Page
2/2

Business Unit / GCM

BA Quarto Plate, Quarto Plate Europe

Date / Datum / Date
16-Oct-2017

Load, Ladung, Charge No
159074

Acknowledged ID, Bestätigung, Commande ID
300443409

Certified acc. to AD2000-Guideline W0 and Pressure Equipment Directive (2014/69/EU) annex 1, sec. 4.3 by the notified body for pressure equipment of the TÜV NORD Systems notified body, reg.-no. 0045 Construction Products Regulation (305/2011/EU) The Declaration of Performance (DoP), see www.outokumpu.com

Additional testing:
ASTM A262 Practice E

Tolerance	Standard	Class
Flatness tolerance	EN 18286/A480/M/EN 10029	ISO 18286 N/A480/M/EN 10029 N
Length	EN 18286/A480/M/EN 10029	ISO 18286 A/A480/M/EN 10029
Thickness	EN 18286/A480/M/EN 10029	ISO 18286/A480/M/EN 10029 B
Width	EN 18286/A480/M/EN 10029	ISO 18286 A/A480/M/EN 10029

F13401
7/16" JIC All Swiv Tee 10K 316L

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
Rogific: SWEDEN

V.A.T no: SE56001874801
Regno: 566001-8748

Computer generated original
Quality Inspector

Per-Ove Endersdal

