



Aperam Stainless Services & Solutions Germany GmbH

Hildenerstr.28
40699 Erkrath

Tel: 02065/9466-0
Fax: 02065/9466-290

**TEST REPORT
RELEVÉ DE CONTRÔLE
WERKSZEUGNIS**

According to / Selon / Nachdem
EN 10204

BL: 0223679 - 1

Date: 02/01/2019

Manufact. / Product. /Herstell.

APERAM STAINLESS S.ETS.INTERNATIONAL

Supplier Lot / Lot Fourn. / Band Nr

84007627

Item / Article / Produkt

96-314007

SHEETS 4301/4307 1D WITHOUT PAPER 6,0 X 1500,0 X 3000,0 MARK OF GO

Heat N° / N° de coulée / Schmelz Nr

840076

Customer / Client / Kunde

OVAKO METALS OY AB

Steel Designation / Désignation Acier / Stahlbezeichnung

EN 10028-7 WNR 1.4307/1.4301
EN 10088-2 WNR 1.4307/1.4301
ASTM A 240(M) TYPE 304L/304
ASME SA 240 TYPE 304L/304

Order / Commande / Order

811847656 - 01

Reference / Référence / Referenz

010104

AD 2000 W2 -- AD 2000 W10 -- PED 2014/68/EU

Mill Certificate / N° de Certificats / Prüfzeugnis Nr

18K0050555 18K0050555-CE

Chemical Analysis / Analyse Chimique / Chemische Zusammensetzung

| | C | Si | Mn | Ni | Cr | Mo | Ti | N | S | P | Cu | Al | | | | |
|--|-------|------|------|------|-------|----|----|-------|-------|-------|----|----|--|--|--|--|
| Cast Analysis Analyse Coulée Analyse | 0,019 | 0,43 | 1,44 | 8,04 | 18,04 | | | 0,072 | 0,005 | 0,034 | | | | | | |

Mechanical Properties / Propriétés Mécaniques / Mechanische Werte EN 10002-1




| | Yield strength Limite D'élasticité Dehngrenze MPA | | Tensile strength Résistance à la traction Zugfestigkeit MPA | Elongation after fracture (A) Allongement après rupture Bruchdehnung % | | Hardness Dureté Haerte | % |
|--|---|-------|---|--|-------|------------------------------|----|
| | Rp 0.2 % | Rp 1% | Rm | A5 | 50 mm | HRB | |
| | 316 | | 626 | | 54 | 88,8 | 50 |




Material identification / Identification Matière / Identifizierung Sachgebiet



| Lot Nr N° Lot Los Nr | Weight Poids Gewicht | Lot Nr N° Lot Los Nr | Weight Poids Gewicht | Lot Nr N° Lot Los Nr | Weight Poids Gewicht |
|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| | Kg | | Kg | | Kg |
| 6502055 | 1070 | | | | |
| 6502056 | 1070 | | | | |
| 6502057 | 860 | | | | |

Number of lots / Nombre de lots / Bunde Anzahl : 3

Total weight / Poids Total / Gesamt Gewicht [Kg] : 3000

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|---|--|---|--|-----------|--|-----------|--|-----|--|-----|--|-----|--|-----|--|-----|--|--|--|--|--|--|--|
|  <p>Correspondentieadres: Aperam Genk Swinnenwijerweg 5, Poort Genk 7523 3600 Genk, Belgium Tel. +32 (0)89 30 21 11</p> | | MILL CERTIFICATE BS EN 10204/3.1 CERTIFICAT DE RECEPTION NF EN 10204/3.1 ABNAHMEPRUEFZEUGNIS DIN EN 10204/3.1 | | | | | | | | | | N-Nr-N 18K0050555-01 V01 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Certified acc.PED 2014/68/EU Annex I § 4.3 by Certification Body 0036 of TUV SUD Industrie Service GmbH with cert.No.:314/2007/MUC.Renounced of counter signature agreed by TÜV SÜD (9/5/2007).Approved acc.AD 2000-Merkblatt W0/TRD 100 by TÜV SÜD Industrie Service GmbH.Confirmation letter from TÜVSÜD Industrie Service GmbH of 07/05/2010 about the uniformity of coils acc.AD2000 W2 §4.1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tech.Req.:AD 2000 W2 -- AD 2000 W10 -- EN 13445-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer's works order number N° de la commande usine productrice Werksauftragsnummer 80475021/01-59279/613/01 | | Surveyor's mark Cachet de l'expert Stempel des Werkssachverstaendigen  | | Purchaser and/or consignee Client et/ou destinataire Besteller und/oder Empfaenger APERAM SS&S GERMANY Hildener Straße 28 40699 Erkrath DEUTSCHLAND | | | | | | Purchaser's order number N° de commande client Kundenbestellnummer 811797306 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product - Produit - Erzeugnis COILS, HOT ROLLED, ANNEALED AND PICKLED COILS, LAMINE A CHAUD, RECUITS + DECAPE COILS, WARMGEWALZT, GEGLUEHT UND GEBEIZT | | | | | | | | | | Customer article number N.article client Artikelnummer des Kunden ART000091 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Steel designation Désignation de l'acier Stahlbezeichnung EN 10028-7-2016 1.4307 / 1.4301 EN 10088-2-2014 1.4307 / 1.4301 ASTM A 240-2017 TYPE 304L / 304 ASME SA 240-2017 TYPE 304L / 304 EN 10088-4-2009 1.4307 / 1.4301 | | Finish Présentation Ausfuehrung ID ID NO 1 NO 1 ID | | Steelmaking process Mode d'elaboration de l'acier - Stahlherstellungverfahren Prod.proces: Electric arc furnace - VOD/AOD - Continuous casting Proc.fabric.: Four à arc - VOD/AOD - Coulée continue Fertigungsablauf: Elektro-Ofen - VOD/AOD - Stranggussanlage | | | | | | Product delivery condition Etat de livraison du produit - Lieferzustand Solution treated: Hypertrempe: 1050 °C Loesungsgegl+abgeschreckt: Forced air-water/air forcé-eau Geblaese Luft-Wasser | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NACE MR 0175 / ISO 15156-1 / ISO 15156-3 -- NACE MR 0103 // ASME-CODE SECT.2 PART A // ASTM A480 / A480M -- ASME SA480 / SA480M // CORR. TEST: ASTM A262-E: OK // CORROSION INTERGRANULAIRE SELON ISO 3651/2:OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Identification of the product Identification du produit - Identifizierung des Erzeugnisses MELTED IN BELGIUM, MADE IN BELGIUM | | Dimensions Dimensions - Abmessungen Thickness B09 Epaisseur - Staerke 6.00 mm | | | | | | Width B10 Largeur - Breite 1500.00 mm | | Length B11 Longueur - Laenge | | Number of pieces B08 Nb de pièces - Stueckzahl 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coil n. N.Bobine - Band Nr. 84007627 | | Heat n. N.Coulée - Schmelz Nr. 840076 | | | | | | | | Net weight B13 Poids net - netto Gewicht 15540 KG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEMICAL ANALYSIS - ANALYSE CHIMIQUE - CHEMISCHE ZUSAMMENSETZUNG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | C | | Si | | Mn | | Ni | | Cr | | Mo | | Ti | | N | | S | | P | | Co | | | | | | | | | | | | | | | | | |
| Required -Exigé %mini Anforderung. %maxi | | 0.030 | | 0.75 | | 2.00 | | 8.00 10.50 | | 17.50 19.50 | | | | | | 0.100 | | 0.015 | | 0.045 | | | | | | | | | | | | | | | | | | | |
| Cast Analysis Analyse coulee Analyse Schmelze | | 0.019 | | 0.43 | | 1.44 | | 8.04 | | 18.04 | | | | | | 0.072 | | 0.005 | | 0.034 | | 0.178 | | | | | | | | | | | | | | | | | |
| | | C71 | | C72 | | C73 | | C74 | | C75 | | C76 | | C77 | | C78 | | C79 | | C80 | | C81 | | C82 | | C83 | | C84 | | C85 | | C86 | | | | | | | |
| Positive material identification carried out : OK Tests de vérification de la conformité de la nuance fournie : OK Verwechslungspruefung wurde durchgefuehrt : OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Location (1) | | MECHANICAL PROPERTIES - PROPRIETES MECANIQUES - MECHANISCHE WERTE EN ISO 6892-1 B / A-SA 370 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Room temperature - Température ambiante - Raumtemperatur | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Direction (2) | | Yield or proof strength Limite d'élasticité Dehngrenze MPa | | | | Tensile Strength Résistance à la traction Zugfestigkeit MPa | | | | Elongation after fracture Allongement après rupt. Bruchdehnung % | | Hardness Dureté Haerte | | Yield or proof strength Limite d'élasticité Dehngrenze MPa | | Tensile str. Résist. MPa Zugfestigkeit | | Elongation % Allongement. Bruchdehnung | | | | | | | | | | | | | | | | | | | | | |
| | | Required Exigé Anforderung | | Rp0.2% | | Rp1% | | Rm | | A5 | | 50mm | | HRBW | | Rp0.2% | | Rp1% | | Rm | | A5 | | | | | | | | | | | | | | | | | |
| | | mini maxi | | 210 | | 250 | | 520 700 | | 45 | | 45 | | 92 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 T | | Obtained Obtenu Ergebnisse | | 316 | | 360 | | 626 | | 55 | | 54 | | 89 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | C11 | | C14 | | C12 | | C13 | | C15 | | C31 | | C16 | | C17 | | C18 | | C19 | | | | | | | | | | | | | | | | | |
| Impact strength test Essai de résilience Kerbschlagzaehigkeitstest | | C40 | | t(°c) | | C44 | | | | E0.2(T)/R(T) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | 50 | | C50 | | C51 | | C52 | | C53 | | C54 | | C55 | | C05 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Location of the sample (1) Emplacement de l'échantillon Lage des Probenabschnittes 1. Front - Début - Anfang 2. Back - Fin - Ende 3. Middle - Milieu - Mitte | | The delivery is in accordance with the order La fourniture est conforme aux exigences de la commande Die lieferung entspricht den Bestellbedingungen | | | | | | Packing list Avis d'expédition Lieferscheinnummer 2018054858-100055 | | Organisation inspection Organisme et/ou service contrôle Ueberwachungsabteilung Quality Department 14/11/2018  The inspector Le responsable Der Werkssachverstaendige D. Raemaekers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | EN ISO 3651/2 - A:OK | | | | | | Internal cleanliness: A: B: C: D: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | D51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | C01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | C02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | D01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z45 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z47 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z53 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z56 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z58 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z61 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z62 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z63 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z64 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z66 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z67 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z68 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z69 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z70 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z73 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z74 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z79 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z80 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z82 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | Z90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z93 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z94 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z97 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z98 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Z100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|--|--|--|--|--|--|--|--|---|--|--|--|---|--|---|--|---|--|---|--|-----------|--|-----------|--|-----|--|
|  | | MILL CERTIFICATE BS EN 10204/3.1 CERTIFICAT DE RECEPTION NF EN 10204/3.1 ABNAHMEPRUEFZEUGNIS DIN EN 10204/3.1 | | | | | | | | | | N-Nr-N 18K0050555-CE V01 | | | | | | | | | | | | | |
| Correspondentieadres: Aperam Genk Swinnenwijerweg 5, Poort Genk 7523 3600 Genk, Belgium Tel. +32 (0)89 30 21 11 | | 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. | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer's works order number N° de la commande usine productrice Werksauftragsnummer 80475021/01-59279/613/01 | | Surveyor's mark Cachet de l'expert Stempel des Werkssachverstaendigen  | | Purchaser and/or consignee Client et/ou destinataire Besteller und/oder Empfaenger APERAM SS&S GERMANY Hildener Straße 28 40699 Erkrath DEUTSCHLAND | | | | Purchaser's order number N° de commande client Kundenbestellnummer 811797306 | | | | | | | | | | | | | | | | | |
| Product - Produit - Erzeugnis COILS, HOT ROLLED, ANNEALED AND PICKLED COILS, LAMINE A CHAUD, RECUTTS + DECAPE COILS, WARMGEWALZT, GEGLUEHT UND GEBEIZT | | Finish Présentation Ausfuehrung ID | | Steelmaking process Mode d'élaboration de l'acier - Stahlherstellungverfahren Prod.proces: Electric arc furnace - VOD/AOD - Continuous casting Proc.fabric.: Four à arc - VOD/AOD - Coulée continue Fertigungsablauf: Elektro-Ofen - VOD/AOD - Stranggussanlage | | | | Customer article number N.article client Artikelnummer des Kunden ART000091 | | | | | | | | | | | | | | | | | |
| Steel designation Désignation de l'acier Stahlbezeichnung EN 10088-4-2009 1.4307/1.4301 | | | | Any supplementary requirements Prescriptions supplémentaires - Zusätzliche Anforderungen | | | | Product delivery condition Etat de livraison du produit - Lieferzustand Solution treated: Hypertrempe: 1050 °C Loesungsgegl+abgeschreckt: Forced air-water/air forcé-eau Geblaese Luft-Wasser | | | | | | | | | | | | | | | | | |
| Identification of the product Identification du produit - Identifizierung des Erzeugnisses MELTED IN BELGIUM, MADE IN BELGIUM | | | | | | | | | | | | Dimensions Dimensions - Abmessungen | | Number of pieces Nb de pièces - Stueckzahl 1 | | | | | | | | | | | |
| Coil n. N.Bovine - Band Nr. 84007627 | | Heat n. N.Coulée - Schmelz Nr. 840076 | | Thickness Epaisseur - Staerke 6.00 mm | | Width Largeur - Breite 1500.00 mm | | Length Longueur - Laenge | | Net weight Poids net - netto Gewicht 15540 KG | | | | | | | | | | | | | | | |
| CHEMICAL ANALYSIS - ANALYSE CHIMIQUE - CHEMISCHE ZUSAMMENSETZUNG | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | C | | Si | | Mn | | Ni | | Cr | | Mo | | Ti | | N | | S | | P | | Co | | | |
| Required -Exigé %mini Anforderung. %maxi | | 0.030 | | 0.75 | | 2.00 | | 8.00 10.50 | | 17.50 19.50 | | | | | | 0.100 | | 0.015 | | 0.045 | | | | | |
| Cast Analysis Analyse coulée Analyse Schmelze | | 0.019 | | 0.43 | | 1.44 | | 8.04 | | 18.04 | | | | | | 0.072 | | 0.005 | | 0.034 | | 0.178 | | | |
| | | C71 | | C72 | | C73 | | C74 | | C75 | | C76 | | C77 | | C78 | | C79 | | C80 | | C81 | | C82 | |
| Positive material identification carried out : OK Tests de vérification de la conformité de la nuance fournie : OK Verwechslungsprüfung wurde durchgeführt : OK | | | | | | | | | | | | D52 | | | | | | | | | | | | | |
| Location (1) | | MECHANICAL PROPERTIES - PROPRIETES MECANIQUES - MECHANISCHE WERTE EN ISO 6892-1 B / A-SA 370 | | | | | | | | | | C20 | | | | | | | | | | | | | |
| | | Room temperature - Température ambiante - Raumtemperatur | | | | | | | | | | Test temperature (°C) : | | C03 | | | | | | | | | | | |
| Direction (2) | | Yield or proof strength Limite d'élasticité Dehngrenze MPa | | | | Tensile Strength Résistance à la traction Zugfestigkeit MPa | | | | Elongation after fracture Allongement après rupt. Bruchdehnung % | | Hardness Dureté Haerte | | Yield or proof strength Limite d'élasticité Dehngrenze MPa | | Tensile str. Résist. MPa Zugfestigkeit | | Elongation % Allongement. Bruchdehnung | | | | | | | |
| | | Rp0.2% | | Rp1% | | Rm | | A5 | | 50mm | | HRBW | | Rp0.2% | | Rp1% | | Rm | | A5 | | | | | |
| 1 T | | mini | | 210 | | 250 | | 520 | | 45 | | 45 | | 92 | | | | | | | | | | | |
| 2 T | | maxi | | 316 | | 360 | | 700 | | 55 | | 54 | | 89 | | | | | | | | | | | |
| | | C11 | | C14 | | C12 | | C13 | | C15 | | C31 | | C16 | | C17 | | C18 | | C19 | | | | | |
| Impact strength test Essai de résilience Kerbschlagzaehigkeitstest | | C40 | | t(°c) | | C44 | | Corrosion test Test de corrosion Korrosionstest | | | | E0.2(T)/R(T) % | | | | | | | | | | | | | |
| | | C42 | | | | | | EN ISO 3651/2 - A:OK | | | | 50 | | C50 | | C51 | | C52 | | C53 | | C54 | | | |
| | | | | | | | | D51 | | | | Internal cleanliness: | | A: | | B: | | C: | | D: | | C57 | | | |
| Location of the sample (1) Emplacement de l'échantillon Lage des Probenabschnittes 1. Front - Début - Anfang 2. Back - Fin - Ende 3. Middle - Milieu - Mitte | | The delivery is in accordance with the order La fourniture est conforme aux exigences de la commande Die lieferung entspricht den Bestellbedingungen | | | | Packing list Avis d'expédition Lieferscheinnummer 2018054858-100055 | | | | Organisation inspection Organisme et/ou service contrôle Ueberwachungsabteilung Quality Department 14/11/2018  The inspector Le responsable Der Werkssachverstaendige D. Raemaekers | | | | | | | | | | | | | | | |
| | | C01 | | | | Z01 | | | | A10 | | | | A05 | | | | | | | | | | | |
| Direction of the test pieces (2) Orientation des éprouvettes Probenrichtung T. Transverse - Travers - Quer L. Longitudinal - Long - Laengs | | C02 | | | | D01 | | | | Z02 | | | | | | | | | | | | | | | |

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|  | Annex to certificate 18K0050555-01 V01 Annexe du CCPU Anlage Zum Zeugnis CE02 | | Certificate CCPU - Zeugnis 18K0050555-CE V01 CE05 |
| | Certificate of Production Control Number Numéro du certificat de contrôle de la production Zeugnisnummer von Produktionskontrolle 0036-CPD-43-2011 CE03 | |  |
| | Correspondance address Adresse de correspondance - Adresse für briefwechsel Swinnenwijerweg 5, Poort Genk 7523 3600 Genk, Belgium CE01 | Year 11 Année Jahr CE04 | |
| Manufacturer's works order number N° de la commande usine productrice Werksauftragsnummer 80475021/01-59279/613/01 CE07 | Purchaser and/or consignee Client et/ou destinataire Besteller und/oder Empfaenger APERAM SS&S GERMANY Hildener Straße 28 40699 Erkrath DEUTSCHLAND CE08 | | Purchaser's order number N° de commande client Kundenbestellnummer 811797306 CE09 Customer article number N° d'article client Artikelnummer des Kunden ART000091 CE10 |
| Identification of the product Identificaiton du produit - Identifizierung des Erzeugnisses CE11 | Dimensions Dimensions - Abmessungen CE12 | | |
| Coil n° N° de bobine - Band Nr 84007627 CE11 | Thickness Epaisseur - Dicke 6.00 mm CE12 | Width Largeur - Breite 1500.00 mm CE13 | Length Longueur - Laenge CE14 |
| Stainless steel / Acier inoxydable / Rostfreier Stahl CE15 | | | |
| EN10088-4 CE16 | | | |
| Intended uses : building constructions or civil engineering Usages prévus : construction immobilière ou génie civil Vorgesehene Verwendungen : Hochbauten und Ingenieurbauwerke CE17 | | | |
| Declaration of performance : Déclaration des performances : DOP.Nr.GNK.01.01/GNK.02.01 Leistungserklärung : DoP available on website Aperam : www.aperam.com/europe/news-publications/documentation/certifications/approvals CE18 | | | |
| Steel Acier 1.4307/1.4301 Werkstoff CE19 | | | |
| Hot rolled Laminé à chaud Warmgewalzt CE20 | | | |
| Coil / bobine / Band CE21 | | | |
| Elongation / Allongement / Bruchdehnung Tensile strength / Résistance à la traction / Zugfestigkeit Yield strength / Limite d'élasticité / Dehngrenze Impact strength / Résistance au choc / Kerbschlagzähigkeit Weldability / Aptitude au soudage / Schweißseignung Durability / Durabilité / Dauerhaftigkeit Characteristics expressed as indicated in the above mentioned DOP Tolerances on dimension and shape / Tolérances sur les dimensions et sur forme / Grenzabmasse unf Formtoleranzen : EN ISO 9444-2 CE22 | | | |
| Regulated substance : no performance determined Substance réglementée : aucune performance déterminée Regulierter Stoff: keine Leistung festgestellt CE23 | | | |