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|--|--|---|--|--|--|--|--|--|--|---|--|-------------------------------------|--|---|--|---|--|---|--|-------------|--|-----------|--|-----|--|-----|--|-----|--|-----|--|-----|--|
|    |  | <b>MILL CERTIFICATE BS EN 10204/3.1</b><br><b>CERTIFICAT DE RECEPTION NF EN 10204/3.1</b><br><b>ABNAHMEPRUEFZEUGNIS DIN EN 10204/3.1</b>  |  |  |  |  |  |  |  |   |  | <b>N-Nr-N 23K0026115-01 V01</b>     |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
|  |  | 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 |  |  |  |  |  |  |  |   |  |                                     |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
| Correspondentieadres:<br>Aperam Genk<br>Swinnenwijerweg 5, Poort Genk 7523<br>3600 Genk, Belgium<br>Tel. +32 (0)89 30 21 11  |  | Tech.Req.:AD 2000 W2 -- AD 2000 W10 -- EN 13445-2   |  |  |  |  |  |  |  |   |  |                                     |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>Manufacturer's works order number</b><br>N° de la commande usine productrice<br>Werksauftragsnummer<br><b>80856207/01-08457/FHT/01</b>  |  | <b>Surveyor's mark</b><br>Cachet de l'expert<br>Stempel des<br>Werkssachverstaendigen<br>  |  | <b>Purchaser and/or consignee</b><br>Client et/ou destinataire<br>Besteller und/oder Empfaenger<br><br><b>APERAM SS&amp;S HAAN</b><br>Aperam Allee 1<br><br>42781 Haan<br>DEUTSCHLAND  |  |  |  | <b>Purchaser's order number</b><br>N° de commande client<br>Kundenbestellnummer<br><b>306900832</b>  |  |   |  |                                     |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>Product - Produit - Erzeugnis</b><br>COIL, COLD ROLLED, UNTRIMMED, FINISH 2B<br>COIL,LAMINE A FROID, BORDS NON REFENDUS, FINI 2B<br>CL.KALTGEW.,GEGLUEHT+GEBEIZT,LEICHT NACHGEW.,UNBESAEUMT   |  |   |  |  |  |  |  | <b>Customer article number</b><br>N.article client<br>Artikelnummer des Kunden<br><b>ART329378</b>   |  |   |  |                                     |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>Steel designation</b><br>Désignation de l'acier<br>Stahlbezeichnung<br><br>EN 10028-7-2016 1.4307 / 1.4301<br>EN 10088-2-2014 1.4307 / 1.4301<br>ASTM A 240-2022 TYPE 304L / 304<br>ASME SA 240-2021 TYPE 304L / 304<br>EN 10088-4-2009 1.4307 / 1.4301 |  | <b>Finish</b><br>Présentation<br>Ausfuehrung<br><br>2B<br>2B<br>2B<br>2B<br>2B  |  | <b>Steelmaking process</b><br>Mode d'elaboration de l'acier - Stahlherstellungverfahren<br>Prod.proces: Electric arc furnace - VOD/AOD - Continuous casting<br>Proc.fabric.: Four à arc - VOD/AOD - Coulée continue<br>Fertigungsablauf: Elektro-Ofen - VOD/AOD - Stranggussanlage |  |  |  | <b>Product delivery condition</b><br>Etat de livraison du produit - Lieferzustand<br><br><b>Solution Annealing</b><br>Hypertrempe <b>1050 °C</b><br>Lösungsglühen<br><br><b>Forced air-water/air forcé-eau</b><br>Geblaese Luft-Wasser |  |   |  |                                     |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
| ASME-CODE SECT.2 PART A // NACE MR 0175 / ISO 15156-1 / ISO 15156-3 -- NACE MR 0103 / ISO 17945 // ASTM A480 / A480M -- ASME SA480 /SA480M // CORR.<br>TEST: ASTM A262-E: OK // CORROSION INTERGRANULAIRE SELON ISO 3651/2:OK                              |  |   |  |  |  |  |  |  |  |   |  |                                     |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>Identification of the product</b><br>Identification du produit - Identifizierung des Erzeugnisses<br><b>MADE IN BELGIUM</b>   |  | <b>Dimensions</b><br>Dimensions - Abmessungen<br><br><b>Thickness</b> B09<br>Epaisseur - Staerke<br>5.00 mm   |  |  |  | <b>Width</b> B10<br>Largeur - Breite<br>1500.00 mm                       |  | <b>Length</b> B11<br>Longueur - Laenge   |  | <b>Number of pieces</b> B08<br>Nb de pièces - Stueckzahl<br><b>1</b>          |  |                                     |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>Coil n.</b><br>N.Bovine - Band Nr.<br>38126035  |  | <b>Heat n.</b><br>N.Coulée - Schmelz Nr.<br>061615  |  |  |  |  |  |  |  | <b>Net weight</b> B13<br>Poids net - netto Gewicht<br><b>22500 KG</b>         |  |                                     |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>CHEMICAL ANALYSIS - ANALYSE CHIMIQUE - CHEMISCHE ZUSAMMENSETZUNG</b>  |  |   |  |  |  |  |  |  |  |   |  |                                     |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
|  |  | <b>C</b>  |  | <b>Si</b>  |  | <b>Mn</b>  |  | <b>Ni</b>  |  | <b>Cr</b>   |  | <b>Mo</b>                           |  | <b>Ti</b>   |  | <b>N</b>  |  | <b>S</b>  |  | <b>P</b>    |  | <b>Co</b> |  |     |  |     |  |     |  |     |  |     |  |
| <b>Required -Exigé</b> % mini<br>Anforderung. % maxi   |  | 0.030   |  | 0.75   |  | 2.00   |  | 8.00<br>10.50  |  | 18.00<br>19.50  |  |                                     |  |   |  | 0.100   |  | 0.015   |  | 0.045       |  |           |  |     |  |     |  |     |  |     |  |     |  |
| Cast Analysis<br>Analyse coulee<br>Analyse Schmelze  |  | 0.022   |  | 0.32   |  | 1.25   |  | 8.10   |  | 18.15   |  |                                     |  |   |  | 0.046   |  | 0.004   |  | 0.032       |  | 0.215     |  |     |  |     |  |     |  |     |  |     |  |
|  |  | C71   |  | C72  |  | C73  |  | C74  |  | C75   |  | C76                                 |  | C77   |  | C78   |  | C79   |  | C80         |  | C81       |  | C82 |  | C83 |  | C84 |  | C85 |  | C86 |  |
| Positive material identification carried out : OK<br>Tests de vérification de la conformité de la nuance fournie : OK<br>Verwechslungspruefung wurde durchgefuehrt : OK  |  |   |  |  |  |  |  |  |  |   |  |                                     |  | D52   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>Location (1)</b>  |  | <b>MECHANICAL PROPERTIES - PROPRIETES MECANIQUES - MECHANISCHE WERTE</b> EN ISO 6892-1 B / A-SA 370   |  |  |  |  |  |  |  |   |  | C20                                 |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
|  |  | Room temperature - Température ambiante - Raumtemperatur  |  |  |  |  |  |  |  |   |  | Test temperature (°C) :             |  | C03   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>Direction (2)</b>   |  | <b>Yield or proof strength</b><br>Limite d'élasticité<br>Dehngrenze MPa   |  |  |  | <b>Tensile Strength</b><br>Résistance à la traction<br>Zugfestigkeit MPa |  |  |  | <b>Elongation after fracture</b><br>Allongement après rupt.<br>Bruchdehnung % |  | <b>Hardness</b><br>Dureté<br>Haerte |  | <b>Yield or proof strength</b><br>Limite d'élasticité<br>Dehngrenze MPa |  | <b>Tensile str.</b><br>Résist. MPa<br>Zugfestigkeit |  | <b>Elongation %</b><br>Allongement.<br>Bruchdehnung |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
|  |  | <b>Rp0.2%</b>   |  | <b>Rp1%</b>  |  | <b>Rm</b>  |  | <b>50mm</b>  |  | <b>A5</b>   |  | <b>HRBW</b>                         |  | <b>Rp0.2%</b>   |  | <b>Rp1%</b>   |  | <b>Rm</b>   |  | <b>50mm</b> |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>1</b><br><b>T</b>   |  | Required<br>Exigé<br>Anforderung<br><br>mini<br>maxi  |  | 230  |  | 260  |  | 540<br>700   |  | 45  |  | 45                                  |  | 92  |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>2</b>   |  | Obtained<br>Obtenu<br>Ergebnisse  |  | 285  |  | 316  |  | 630  |  | 55  |  | 55                                  |  | 87  |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
|  |  | C11   |  | C14  |  | C12  |  | C13  |  | C15   |  | C31                                 |  | C16   |  | C17   |  | C18   |  | C19         |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>Impact strength test</b><br>Essai de résilience<br>Kerbschlagzaehigkeitstest  |  |   |  | <b>Corrosion test</b><br>Test de corrosion<br>Korrosionstest   |  |  |  | E0.2(T)/R(T)<br>%  |  |   |  |                                     |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
|  |  | C40   |  | C44  |  |  |  | 45   |  | C50   |  | C51                                 |  | C52   |  | C53   |  | C54   |  | C55         |  | C05       |  |     |  |     |  |     |  |     |  |     |  |
|  |  | C42   |  |  |  | <b>EN ISO 3651/2 - A:OK</b>  |  | D51  |  | Internal cleanliness:   |  | A:                                  |  | B:  |  | C:  |  | D:  |  | C57         |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>Location of the sample (1)</b><br>Emplacement de l'échantillon<br>Lage des Probenabschnittes<br>1. Front - Début - Anfang<br>2. Back - Fin - Ende<br>3. Middle - Milieu - Mitte   |  | <b>The delivery is in accordance with the order</b><br>La fourniture est conforme aux exigences de la commande<br>Die lieferung entspricht den Bestellbedingungen   |  |  |  | Z01  |  | <b>Organisation inspection</b><br>Organisme et/ou service contrôle<br>Ueberwachungsabteilung   |  |   |  | A05                                 |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
|  |  | <b>Packing list</b><br>Avis d'expédition<br>Lieferscheinnummer<br><b>2023041802-102381</b>  |  |  |  | A10  |  | <b>Quality Department</b><br><br>27/7/2023<br><br><br><b>R. Vliegen</b><br>The inspector<br>Le responsable<br>Der Werkssachverstaendige           |  |   |  | Z02                                 |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |
| <b>Direction of the test pieces (2)</b><br>Orientation des éprouvettes<br>Probenrichtung<br>T. Transverse - Travers - Quer<br>L. Longitudinal - Long - Laengs  |  | <b>Marking, inspection and measurement : without objection</b><br>Contrôle de marquage, d'aspect et de dimensions : satisfaisants<br>Pruefung der Stempelung, des Oberflaechenaspekts und der<br>Abmessungen : ohne Beanstandung  |  |  |  | D01  |  |  |  |   |  |                                     |  |   |  |   |  |   |  |             |  |           |  |     |  |     |  |     |  |     |  |     |  |