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|  Correspondentieadres: Aperam Genk Swinnenwijerweg 5, Poort Genk 7523 3600 Genk, Belgium Tel. +32 (0)89 30 21 11 | | MILL CERTIFICATE BS EN 10204/3.1 CERTIFICAT DE RECEPTION NF EN 10204/3.1 ABNAHMEPRUEFZEUGNIS DIN EN 10204/3.1 | | | | | | | | | | N-Nr-N 21K0044149-01 V01 | | | | | | | | | | | | | | | | | | | | | |
| | | Certified acc.PED 2014/68/EU Annex 1 4.3 by Certification Body 0036 of TÜV SÜD 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 TÜV SÜD Industrie Service GmbH of 07/05/2010 about the uniformity of coils acc.AD2000 W2 4.1.1 | | | | | | | | | | 4501313568 | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer's works order number N° de la commande usine productrice Werksauftragsnummer 80742251/01-08457/A6A/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 HAAN Aperam Allee 1 42781 Haan DEUTSCHLAND | | | | Purchaser's order number N° de commande client Kundenbestellnummer 110886369 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product - Produit - Erzeugnis COILS, HOT ROLLED, ANNEALED AND PICKLED COILS, LAMINE A CHAUD, RECUITS + DECAPE COILS, WARMGEWALZT, GEGLUEHT UND GEBEIZT | | Finish Présentation Ausfuehrung ID ID NO I NO I 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 | | | | Customer article number N.articlé client Artikelnummer des Kunden ART297613 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Steel designation Désignation de l'acier Stahlbezeichnung EN 10028-7-2016 1.4404 / 1.4401 EN 10088-2-2014 1.4404 / 1.4401 ASTM A 240-2020 TYPE 316L / 316 ASME SA 240-2021 TYPE 316L / 316 EN 10088-4-2009 1.4404 / 1.4401 | | Any supplementary requirements Prescriptions supplémentaires - Zusätzliche Anforderungen | | Product delivery condition Etat de livraison du produit - Lieferzustand Solution Annealing Hypertrempe 1050 °C Lösungsglühen | | | | Forced air-water/air forcé-eau 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. 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 Epaisseur - Staerke 10.00 mm | | | | Width Largeur - Breite 1500.00 mm | | Length Longueur - Laenge | | Number of pieces Nb de pièces - Stueckzahl 1 | | Net weight Poids net - netto Gewicht 27400 KG | | | | | | | | | | | | | | | | | | | | | |
| Coil n. N.Bobine - Band Nr. 14107710 | | Heat n. N.Coulée - Schmelz Nr. 141077 | | Required - Exigé %mini Anforderung. %maxi 0.030 0.75 2.00 10.00 16.50 2.00 13.00 18.00 2.50 0.100 0.015 0.045 | | Cast Analysis Analyse coulée Analyse Schmelze 0.023 0.48 1.25 10.00 16.58 2.06 0.030 0.001 0.033 0.266 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEMICAL ANALYSIS - ANALYSE CHIMIQUE - CHEMISCHE ZUSAMMENSETZUNG | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | C | | Si | | Mn | | Ni | | Cr | | Mo | | Ti | | N | | S | | P | | Co | | | | | | | | | | | |
| | | 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 Verwechslungsprüfung wurde durchgeführt : OK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Location (1) | | MECHANICAL PROPERTIES - PROPRIETES MECANIKES - MECHANISCHE WERTE EN ISO 6892-1 B / A-SA 370 | | | | | | | | | | Room temperature - Température ambiante - Raumtemperatur | | Test temperature (°C) : | | | | | | | | | | | | | | | | | | | |
| 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 | | 50mm A5 | | HRBW | | Rp0.2% Rp1% | | Rm 50mm | | | | | | | | | | | | | | | | | | | | | |
| mini maxi | | 220 260 | | 530 680 | | 40 40 | | 95 | | 220 260 | | 530 680 | | | | | | | | | | | | | | | | | | | | | |
| Obtained Obtenu Ergebnisse | | 331 362 | | 584 | | 56 53 | | 84 85 | | 331 362 | | 584 | | | | | | | | | | | | | | | | | | | | | |
| Impact strength test Essai de résilience Kerbschlagzähigkeitstest | | Corrosion test Test de corrosion Korrosionstest | | E0.2(T)/R(T) % | | 56 | | EN ISO 3651/2 - A:OK | | 56 | | 56 | | | | | | | | | | | | | | | | | | | | | |
| C40 (t°C) | | C44 | | D51 | | C50 | | C51 | | C52 | | C53 | | C54 | | C55 | | 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 | | | | Organisation inspection Organisme et/ou service contrôle Ueberwachungsabteilung | | | | Quality Department 19/11/2021  R. Vliegen | | | | | | | | | | | | | | | | | | | | | | | |
| Direction of the test pieces (2) Orientation des éprouvettes Probenrichtung T. Transverse - Travers - Quer L. Longitudinal - Long - Laengs | | Packing list Avis d'expédition Lieferscheinnummer 2021052820-102381 | | | | Marking, inspection and measurement : without objection Contrôle de marquage, d'aspect et de dimensions : satisfaisants Prüfung der Stempelung, des Oberflaechenaspekts und der Abmessungen : ohne Beanstandung | | | | The inspector Le responsable Der Werkssachverstaendige | | | | | | | | | | | | | | | | | | | | | | | |