



Business Unit / QCM

Avesta Works / Jerker Sterneland

Date Datum Date

22-Jul-2019

Load, Ladung, Charge No

FI/191288

Acknowledged ID, Bestätigung, Commande ID

6610/300526713

| | | | |
|---|--|---|--|
| Your ref, Ihre Ref., Votre ref 12838... | | Requirements, Anforderungen, Exigences ASTM A 240M-18 ASME BPVC SEC II PART A SA-240/SA-240M Ed 2017 EN 10088-2:2014 EN 10028-7:2016 AD 2000 W2, W10 & EN 10028-7 NACE MR0175 / ISO 15156-3:2015 EN ISO 9444-2 / ASTM A480M | |
| Buyer, Besteller, Acheteur HTM Yhtiöt Oy Tiilitehtaantie 23 FI 12310, RYTTYLÄ FINLAND | | | |
| Consignee, Empfänger, Lieu de livraison HTM Yhtiöt Oy | | | |

| | | | |
|---|---|---|--|
| Mark of Manufacturer Zeichen des Lieferwerkes Signe de producteur | Process Erschmelzungsart Mode de fusion | Inspector's stamp Zeichen des Sachverständigen Poicon de l'expert | Grade, Werkstoff, Nuance Outokumpu Supra 316L/4404 TYPE 316 TYPE 316L 1.4401 1.4404 |
| outokumpu | E+AOD | | |

Product, Erzeugnisform, Produit
Stainless Steel Hot Rolled, Coil-Plate
finish 1D, 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 | 3 | 592420-002 | 12,00 X 1500 X 3000 mm | 7 | 3014 KG |

Chemical composition – Chemische Zusammensetzung – Composition chimiques

| | C | Si | Mn | P | S | Cr | Ni | Mo | Ti | Nb | Cu | Co | N |
|------|------|-----|------|------|------|-------|-------|------|------|------|-----|-----|------|
| Heat | .019 | .50 | 1.25 | .032 | .001 | 17.06 | 10.35 | 2.08 | .007 | .011 | .44 | .26 | .048 |

Radioactive contamination check acc. IAEA recommendations: Approved

Test results – Prüfergebnisse – Results dessais (1N/mm² = 1 MPa) F = Front – Anfan – Debut B = Back – Ende – Fin T = Transverse – Quer – Travers

| Test Ref | Temp °C | RP 0.2 N/MM2 | RP 1.0 N/MM2 | RM N/MM2 | A5 % | 2" % | HB |
|----------|------------|-----------------|-----------------|-------------|---------|---------|-----|
| Min | +20 | 240 | 270 | 530 | 40 | 40 | HB |
| Max | | | | 680 | | | 217 |
| F T | +20 | 325 | 361 | 602 | 55 | 58 | 183 |
| B T | | 336 | 373 | 613 | 54 | 56 | 183 |

Certified acc. to AD 2000-Merkblatt W0 by TÜV NORD, notified body, Reg-No. 0045
Material conforms to NACE MR0175 / ISO 15156-3 in supplied condition
Corrosion acc. ASTM A 262-E, EN ISO 3651-2A: Approved
Heat treatment / Solution annealed: Material temp minimum 1040 °C / Quenched (forced air + water)
Steel grade verification (PMI-spectroscopic): Approved
Marking, visual insp. and gauge measurement: Approved
Certified acc. to PED 2014/68/EU by TÜV NORD, notified body, Reg-No. 0045