QTR
Qualification Test Record
NORSOK M-650

QTR. No.: QTR_S32304
Rev. No.: 1

Manufacturer
name/address/
Web page:
Outokumpu Stainless AB, Quarto Plate Europe, SE-693 81 Degerfors
www.outokumpu.com

Reference standard
NORSOK M-650 rev.4

Material designation
and MDS No.:
ASTM A240 UNS S32304
Outokumpu QPE MDS D35 rev. 5

Manufacturing
summary doc. No.:
MS-32304
Rev. No.:
1

Products and
manufacturing process(es):
Quarto stainless plate Europe, solution annealed and pickled:
Production Routes:
A1: Slab Avesta + Rolling in Degerfors + Heat treatment in Rolling Hearth Furnace Degerfors
A2: Slab Avesta + Rolling in Degerfors + Heat treatment in Batch furnace Degerfors

Mandatory
conditions and sub-
contractors:
Sub-contractors: Slab Avesta

Other information:
Verification of Heat treatment Furnaces carried out. References:
- Report 4.0 Verification of heat treatment procedure in Roller Hearth furnace, 1100°C
- Verification report BF1 (890-109)
- Verification report BF2 (880-110)

Qualification expires
2020-12-21

Tested and Qualified Thickness and Weight

<table>
<thead>
<tr>
<th>Products and manufacturing process(es)</th>
<th>Test record No.</th>
<th>Tested thickness (mm)</th>
<th>Qualified thickness (mm)</th>
<th>Test piece weight (kg)</th>
<th>Qualified weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hot rolled stainless plate, solution annealed and pickled:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A1 TR_2108-11-04</td>
<td>25</td>
<td>31</td>
<td>1578</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>A2 TR_0398-25-01</td>
<td>40</td>
<td>50</td>
<td>3296</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Qualification/Acceptance signatures

Manufacturer:
Outokumpu Stainless AB
Prepared by/Date:
Veronica Sunberg/2019-10-16

Checked by/Date:
Jim Augustsson/2019-10-16

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for supply of the above listed products and materials.
This acceptance does not exempt any purchaser from his responsibility to ensure that this qualification is valid for his products within the essential variables of NORSOK M-650.

Qualified/Accepted by (company name/address):
AkerSolutions
Fonneru, Norway
NO 929 877 950 VAT
Signature/Date: 10/10/2019

Anders Wikkum