# QTR Qualification Test Record

## NORSOK M-650

<table>
<thead>
<tr>
<th>Manufacturer name/address/Web page:</th>
<th>Outokumpu Stainless AB, QPE, SE-693 81 Degerfors <a href="http://www.outokumpu.com">www.outokumpu.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference standard</td>
<td>NORSOK M-650 rev.4</td>
</tr>
</tbody>
</table>
| Material designation and MDS No.:| ASTM A240 UNS S31254  
MDS R15 rev. 5  
MS-UNS S31254  
Rev. No.: 2 |
| Manufacturing summary doc. No.:   |                                                                     |
| Products and manufacturing process(es): | Hot rolled stainless plate, solution annealed and pickled:  
A2: Slab Avesta + Rolling in Degerfors + Heat treatment in Batch Furnaces (BF1 or BF2) Degerfors  
A3: Slab Avesta + Diffusion annealing Avesta + Rolling in Degerfors + Heat treatment in Batch Furnaces (BF1 or BF2) Degerfors |
| Mandatory conditions and sub-contractors: | Sub-contractors: Slab Avesta |
| Other information: | Verification of Heat treatment Furnaces carried out. References:  
- Verification report BF1 (880-109)  
- Verification report BF2 (880-110) |
| Qualification expires:            | 2020-12-22                                                          |

## 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>TR_3485-32-04</td>
<td>32</td>
<td>Max 40</td>
<td>1748</td>
<td>-</td>
</tr>
<tr>
<td>A2</td>
<td>TR_3485-28-04</td>
<td>32</td>
<td>Max 40</td>
<td>1692</td>
<td>-</td>
</tr>
<tr>
<td>A3</td>
<td>TR_8135-03-03</td>
<td>32</td>
<td>Max 40</td>
<td>2092</td>
<td>-</td>
</tr>
</tbody>
</table>

**Manufacturer:**  
Outokumpu Stainless AB

**Prepared by/Date:**  
Technical development  
Veronica Sundberg/2019-10-16

**Checked by/Date:**  
T&Q Manager 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  
Fornebu, Norway  
NO 929 877 950 VAT

**Signature/Date:**  
16/10/2019

**AkerSolutions**
**Fornebu, Norway**
**NO 929 877 950 VAT**