# Qualification Test Record (QTR)

**NORSOK M-650**

<table>
<thead>
<tr>
<th>QTR. No.:</th>
<th>2507 - 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rev. No.:</td>
<td>4</td>
</tr>
</tbody>
</table>

### Manufacturer name/address/Web page:
Outokumpu Stainless AB, Avesta Works, P.O. Box 74, SE 77422 Avesta, Sweden
www.outokumpu.com

### Reference standard
NORSOK M-650, Edition 4

### Material designation and MDS No.:
ASTM A 240: UNS S32750
MDS D55 rev 5

### Manufacturing Summary doc. No.:
MS - NORSOK 18 - 2507

### Products and manufacturing process(es):
- Hot and cold rolled stainless steel plate, sheet and strip
- Hot rolled: Melting – Casting – Hot rolling – Annealing and pickling – Finishing and testing
- Cold rolled: Melting – Casting – Hot rolling – Annealing and pickling – Cold rolling – Annealing and pickling – Finishing and testing

### Mandatory conditions and sub-contractors:

### Other information:
1. Verification of heat treatment procedure has been carried out Ref report no 2012-008v2
2. Temperature of quenching medium in AP-line is 50-55 C.

### Qualification expires:
February 2023

## 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 plate and strip</td>
<td>UNS S32750 HR Qualification test report</td>
<td>8</td>
<td>Max 10</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Cold rolled plate, sheet and strip</td>
<td>UNS S32750 CR Qualification test report</td>
<td>6</td>
<td>Max 7,5</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

## Qualification/acceptance signatures

**Manufacturer:**
Avesta Works
Outokumpu Stainless AB,

**Prepared by/Date:**
Prod.dev.: Kristina Wretstam
2018-09-10

**Checked by/Date:**
Manager Product tech.: Johan Nordström
2018-09-10

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):**
Aker Solutions
Aker Engineering & Technology AS
Reg.nr. 979 017 552

**Signature/Date:**
27/9/2018

**Aker Solutions**