QTR Qualification Test Record

NORSOK M-650

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

Reference standard:
NORSOK M-650 rev.4

Material designation
ASTM A240 UNS S31803, ASTM A240 UNS S32205
MDS D45 rev. 5

Manufacturing summary doc. No.:
MS_2205

Products and manufacturing process(es):
Quarto stainless plate Europe, solution annealed and pickled:
Production Routes:
A2: Slab Avesta + Rolling in Degerfors + Heat treatment in Rolling Hearth Furnace Degerfors
B2: Slab SMACC+ Rolling in Degerfors + Heat treatment in Rolling Hearth Furnace Degerfors
D1: Slab Avesta + Rolling in Degerfors + Heat treatment in Batch furnaces (BF 1 or BF2) Degerfors
D2: Slab SMACC+ Rolling in Degerfors + Heat treatment in Batch furnaces (BF 1 or BF2) Degerfors
E1: Slab Avesta + Rolling in Avesta (SHRP) + Heat treatment in Batch furnaces (BF 1 or BF2) Degerfors
E2: Slab Avesta + Rolling in Avesta (SHRP) + Heat treatment in Rolling Hearth Furnace Degerfors
E3: Slab Tornio+ Rolling in Degerfors + Heat treatment in Rolling Hearth Furnace Degerfors
E4: Slab Tornio+ Rolling in Degerfors + Heat treatment in Batch furnaces (BF 1 or BF2) Degerfors

Sub-contractors: Slab SMACC, Slab Avesta, Slab Tornio

Mandatory conditions and sub-contractors:
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 (880-109)
- Verification report BF2 (880-110)

Other information:
Qualification expires: 11-11-2020

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>
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<td>Hot rolled stainless plate, solution annealed and pickled:</td>
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Qualification/Acceptance signatures

Manufacturer:
Outokumpu Stainless AB
Prepared by/Date: Technical development Veronica Sundberg/2019-10-16
Checked by/Date: General Manager T&Q dept. 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
Aker Solutions
Førnebu, Norway
NO 929 877 950 VAT

Signature/Date: 16/10/2019