
	<b>Qualification Test Record (QTR)</b> <b>NORSOK M-650</b>				QTR. No.: 03													
					Rev. No.: 06													
<b>Manufacturer name/address/ Web page:</b>		H. Butting GmbH & Co. KG, Gifhorner Str. 59, 29379 Wittingen-Knesebeck, Germany www.butting.de																
<b>Reference standard</b>		NORSOK M-650, Edition 4																
<b>Material designation and MDS No.:</b>		ASTM A358 Type 6Mo UNS S31254 Cl. 1/3/5 NORSOK M-630:2020 MDS R12 rev. 6																
<b>Manufacturing Summary doc. No.:</b>		D-03			Rev. No.:06													
<b>Products and manufacturing process(es):</b>		Cold formed Stainless Steel Pipes, longitudinally welded by  <table border="0" style="width: 100%;"> <tr> <td>PAW/GTAW</td> <td>Double/single sided</td> <td>Furnace HT</td> <td>Prod. route no. 1</td> </tr> <tr> <td>PAW/GTAW</td> <td>Double/single sided</td> <td>Induction HT (391)</td> <td>Prod. route no. 2</td> </tr> <tr> <td>PAW/GTAW</td> <td>Double sided</td> <td>Induction HT (391)</td> <td>Prod. route no. 3</td> </tr> </table>					PAW/GTAW	Double/single sided	Furnace HT	Prod. route no. 1	PAW/GTAW	Double/single sided	Induction HT (391)	Prod. route no. 2	PAW/GTAW	Double sided	Induction HT (391)	Prod. route no. 3
PAW/GTAW	Double/single sided	Furnace HT	Prod. route no. 1															
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PAW/GTAW	Double sided	Induction HT (391)	Prod. route no. 3															
<b>Mandatory conditions and sub-contractors:</b>		<ul style="list-style-type: none"> <li>• Cold forming, Heat treatment, Pickling</li> <li>• Raw Material Suppliers  <i>Plate:</i> voestalpine/Böhler, Arcelor Mittal/Industeel, Nippon Yakin, Outokumpu  <i>Coil:</i> Nippon Yakin, Outokumpu</li> </ul>																
<b>Other information:</b>		<ul style="list-style-type: none"> <li>• Test Laboratory accredited to ISO 17025</li> <li>• Verification reports included in Section 3</li> <li>• Qualification testing acc. to MDS R12 Rev.4 or 5, however all testing also meets requirements of MDS R12 Rev.5</li> <li>• Rev. 02 – Qualification at Industeel plates for production route 1</li> <li>• Rev. 03 – Qualification of production route 2</li> <li>• Rev. 04 – Qualification of raw material (coil and plate) from Nippon Yakin</li> <li>• Rev. 05 – Re-Qualification and Qualification of Prod. route No. 3</li> <li>• Rev. 06 – Re-Qualification</li> </ul>																
<b>Qualification expires:</b>		14.03.2029																
<b>Tested and qualified thickness and weight</b>																		
<b>Products and manufacturing process(es):</b>	<b>Reference no.</b>	<b>Qualification order no.</b>	<b>Tested thickness mm</b>	<b>Qualified thickness mm</b>	<b>Test piece weight kg</b>	<b>Qualified weight kg</b>												
Welded pipes / PR 1	QTR-03/R1	1031694	12,70	15,88	N/A	N/A												
Welded pipes / PR 1	QTR-03/R1	1106262	6,00	7,50	N/A	N/A												
Welded pipes / PR 2	QTR-03/R2	1047085	4,78	5,98	N/A	N/A												
Welded pipes / PR 3	QTR-03/R3	1172718	12,70	15,88	N/A	N/A												
<b>Qualification/acceptance signatures</b>																		
<b>Manufacturer:</b> BUTTING GmbH & Co. KG		<b>Prepared by/Date:</b> Sigrun Claus / 07.12.2023		<b>Checked by/Date:</b> Sabine Nagel / 07.12.2023														
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. <i>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.</i>																		
<b>Qualified/Accepted by</b> (company name /address):  Scandinavian Fittings & Flanges				<b>Signature/Date:</b> 06.03.2024 