


	<b>QTR</b> <b>Qualification Test Record</b> <b>NORSOK M-650 Ed. 4</b>					QTR. No.: 1
						Rev. No.: 5
<i>Manufacturer name/address/ Web page:</i>	TTI Tubacex Tubos Inoxidables, S.A.U. Tres Cruces, 8 01400 Llodio (Alava) Spain <a href="http://www.tubacex.com">www.tubacex.com</a>					
<i>Reference standard</i>	ASTM A790 ASTM A789					
<i>Material designation and MDS No.:</i>	SEAMLESS PIPES MDS D41 REV. 5 TUBES UNS S 31803 / UNS S32205 MDS D48 REV. 5					
<i>Manufacturing summary doc. No.:</i>	1. MS 31803 HF1 2. MS 31803 HF2 3. MS 31803 CF3				<i>Rev. No.:</i> 4 4 4	
<i>Products and manufacturing process(es):</i>	1. SEAMLESS PIPES AND TUBES HOT FINISHED DIRECT WATER QUENCHING 2. SEAMLESS PIPES AND TUBES HOT FINISHED, HEAT TREATMENT IN CONTINUOUS FURNACE. 3. SEAMLESS PIPES AND TUBES COLD FINISHED					
<i>Mandatory conditions and sub-contractors:</i>	Acería de Alava, S.A.U. (Sister Company to TTI Tubacex Tubos Inoxidables, S.A.U.) is the main supplier of raw material. Extruded hollows from Schoeller Bleckmann or trepanned hollows from IBF can also be used as raw material for cold rolling. TTI-ACERALAVA do have in house testing facilities to cover all the testing required by 6Mo reference standards. These laboratories are included in the ISO 9001 QA system and work to procedures in compliance with international testing reference standards and following principles of ISO 17025 using qualified personnel, approved procedures and calibrated equipment.					
<i>Other information:</i>	Issued for approval renewal. Verification of heat treatment as per instruction TX-INOX-42. Heat treatment of duplex pipes witnessed by SFF: <ul style="list-style-type: none"> <li>Furnace #3 (report VHT-001)</li> <li>Furnace #1 (report VHT-002)</li> <li>Direct water quenching (report VHT-003)</li> </ul>					
<i>Expiry date:</i>	<i>November 2021</i>					
<b>Tested and Qualified Thickness and Weight</b>						
<i>Products and manufacturing process(es):</i>	<i>Test record No.</i>	<i>Test date</i>	<i>Tested Thickness (mm)</i>	<i>Qualified thickness (mm)</i>	<i>Test piece weight (kg)</i>	<i>Qualified weight (kg)</i>
1	372179	27/07/2005	25,40	31,75	NA	NA
2	356515	18/05/2004	12,70	15,88	NA	NA
3	576039	10/04/2013	13,49	16,86	NA	NA
<b>Qualification/Acceptance signatures</b>						
<b>Manufacturer:</b>	<i>Prepared by/Date:</i>  Carlos Arrieta December 2016		<i>Checked by/Date:</i>  Aitor González December 2016			
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.						
<b>Qualified/Accepted by</b> (company name/address):			<i>Signature/Date:</i>			
			<i>Jarkko Pollestad</i> 21.12.2016			