

	QTR Qualification Test Record NORSOK M-650 Ed. 4		QTR. No.: 3
			Rev. No.: 6
Manufacturer name/address/ Web page:	TTI Tubacex Tubos Inoxidables, S.A.U. Tres Cruces, 8 01400 Llodio (Alava) Spain www.tubacex.com		
Reference standard	ASTM A312 ASTM A269		
Material designation and MDS No.:	SEAMLESS PIPES MDS R11 REV. 5 TUBES UNS S 31254 MDS R18 REV. 5		
Manufacturing summary doc. No.:	1. MS 31254 HF1 2. MS 31254 HF2 3. MS 31254 CF3	Rev. No.: 2 2 2	
Products and manufacturing process(es):	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, HEAT TREATMENT IN CONTINUOUS FURNACE.		
Mandatory conditions and sub-contractors:	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.		
Other information:	Issued for approval renewal. Verification of heat treatment as per instruction TX-INOX-42. Verification of heat treatment witnessed by SFF: <ul style="list-style-type: none"> Furnace #3 (report VHT-001) Furnace #1 (report VHT-002) Direct water quenching (report VHT-003) 		
Expiry date:	November 2021		



Tested and Qualified Thickness and Weight

Products and manufacturing process(es):	Test record No.	Test dates	Tested Thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)
1	377487	8/3/2006	18,26	22,83	NA	NA
1	21603-4	16/3/2016	23,01	23,01	NA	NA
1	21603-3	18/3/216	23,01	23,01	NA	NA
2	377488	8/3/2006	10,97	13,71	NA	NA
2	21603-5	18/3/2016	23,01	28,76	NA	NA
3	374832	8/3/2006	8,74	10,93	NA	NA

Qualification/Acceptance signatures

Manufacturer:	Prepared by/Date:	Checked by/Date:
	 Carlos Arrieta Dec. 2016	 Aitor González Dec. 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.

Qualified/Accepted by (company name/address): 	Signature/Date: 19.12.2016 
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