

ACERALAVA 	QTR Qualification Test Record NORSOK M-650 ED. 4	QTR. No.: 4
		Rev. No.: 1

<i>Manufacturer name/address/ Web page:</i>	Acería de Alava, S.A.U. (ACERALAVA) Tres Cruces, 8 01400 Llodio (Alava) Spain www.tubacex.com	Plant Polígono Industrial de Saracho s/n 01470 Amurrio (Alava) Spain
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<i>Reference standard</i>	NORSOK M-650 EDITION 4 ASTM A479
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<i>Material designation and MDS No.:</i>	BARS MDS R17 REV. 5
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<i>Manufacturing summary doc. No.:</i>	1. MS 31254 HF	Rev. No.: 1
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<i>Products and manufacturing process (es):</i>	1. HOT FORGED BARS
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<i>Mandatory conditions and sub-contractors:</i>	Mechanical and corrosion testing carried at TTI Tubacex Tubos Inoxidables, S.A.U Heat treatment carried out in furnace named Guinea in Acerálava plant.
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<i>Other information:</i>	Heat treatment witnessed by Lloyd's Register of Shipping (report VHTA-02). TTI-ACERALAVA do have in house testing facilities to cover all the testing required by 6Mo, 22% and 25% Cr 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. Corrosion testing performed at mid thickness position (T/2) for information only. If Purchaser intends to use the finished bar for products including the centre of the bar, corrosion testing of the center of the bar shall be evaluated.
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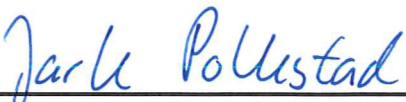
<i>Expiry date:</i>	November 2020
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Tested and Qualified Thickness and Weight						
Products and manufacturing process(es):	Test record No.	Test date	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)
1	630480	6/11/2015	250 as forged 230 as machined	250 as forged 230 as machined	NA	NA

Qualification/Acceptance signatures		
Manufacturer:	Prepared by/Date:  Carlos Arrieta December 2016	Checked by/Date:  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.

Qualified/Accepted by (company name/address): 	Signature/Date: 22.12.2016 
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