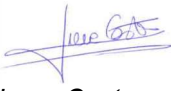



ACERALAVA TUBACEX <small>GROUP</small>	QTR Qualification Test Record NORSOK M-650 EDITION 4					QTR. No.:5
						Rev. No.:3
Manufacturer name/address/ Web page:	ACERIA DE ALAVA, S.A.U. (ACERALAVA) Tres Cruces, 8 01400 Llodio (Alava) Spain www.tubacex.com				PLANT: Polígono de Saracho s/n 01470 Amurrio (Alava) Spain	
Reference standard	NORSOK M-650 EDITION 4 ASTM A182; ISO 17782					
Material designation and MDS No.:	BARS UNS S 31803 / UNS S 32205 NORSOK M-630:2020 : MDS DH44-rev. 1					
Manufacturing summary doc. No.:	QTR5-MS1				REV2	
Products and manufacturing process(es):	1. FORGED BAR BODY Ø430 MM X 1470 MM AS PER TechnipFMC dwg 191513-R Rev 2					
Mandatory conditions and sub-contractors:	Hot forging process carried out at 8000 tons capacity press at Gainzaforge workshop. Heat treatment carried out on furnaces HT-01 following the procedure 04.02-C000.00TT-P.003-EN also at Gainzaforge facilities.					
Other information:	<p>This new QTR no. 5 Rev 3, is made with the aim to be qualified as a TechnipFMC supplier for pieces defined on its drawing 191513-R Rev 2 and lower sizes to produce MPM under his own design, following Norsok M650 Edition 4, Norsok M630:2020 under MDS DH44 rev. 1 (following ISO 17781 Ed 2017).</p> <p>Qualification testing 20240927 (TR-430-2 FORGED BODIES), meets requirements of MDS DH44 rev 1.</p> <p>Heat treatment witnessed by Lloyd's Register and approved by TSS Norway (report VH-TA-R430).</p> <p>ACERALAVA do have in house testing facilities to cover all the testing required by 22Cr and 25Cr reference standards and is ISO 17025:2017 accredited.</p> <p>For qualification, external laboratory AZTERLAN has been involved as well as Tubacex Innovacion S.L Laboratory. All laboratories are ISO 17025:2017 accredited.</p>					
Expiry date	15.11.2026					
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.	20240927	09/2024	Ø405	Ø405	1470	10000
Qualification/Acceptance signatures						
Manufacturer:	Prepared by/Date:  Irene Castro January 2025			Checked by/Date:  Aitor González January 2025		
<p>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.</p> <p>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.</p>						
Qualified/Accepted by (company name/address): TSS NORWAY TUBACEX <small>GROUP</small>				Signature/Date: 16.01.2025		

