ACERALAV	/A		Qualificat	d	QTR. No.: 1				
TUBÂCEX	_		NORSOK		Rev. No.:8				
Manufacturer name/address/ Web page:	, , , , , , , , , , , , , , , , , , , ,						o de Saracho s/n murrio (Alava) Spain		
Reference standard			M-650 EDITION	14			o (r.nava) opami		
Material designation and MDS No.:		BARS	MDS D47 RE	EV. 5 UNS S	S 31803 / L	JNS S 32205			
Manufacturing summary doc. No.:	0	1. MS 31803 HR 2. MS 31803 HFR 3. MS 31803 HF					Rev. No.: 4 4 0		
Products and manufacturing process(es):		1. HOT ROLLED BARS 2. FORGED & ROLLED BARS 3. FORGED BARS							
Mandatory conditions and sub-contractors:	:	Mechanical and corrosion testing carried at TTI Tubacex Tubos Inoxidables, S.A Heat treatment carried out in Guinea Furnace in Acerálava. Heat treatment of UNS S31803 bar according to heat treatment procedure 04.02 C000.00TT-P.001.							
Other informatio		Qualification testing 563327, 558007 & 592257 has been carried out to MDS D47 however material meets requirement of MDS D47 rev. 5. Qualification testing 636375 has been carried out to MDS D47 rev. 5. Heat treatment witnessed by SFF (report VHTA-01). Material can be supplied in a non heat treated condition to be later processed to material against a Material Data Sheet. ACERALAVA-TTI do have in house testing facilities to cover all the testing requir 22% and 25% Cr reference standards. These laboratories are included in the ISO QA system in compliance with international testing reference standards and work procedures following principles of ISO17025.							
Expiry date		Nous	m Lscr Tested and	2020		ee and V	Veight		
Products and manufacturing	Tes	st record No.	Test date	Tested Thickness	Qualified thicknes	d Test pie s weigh	ce Qualified weigh		
process(es):	56	33327	08/11/2012	(mm) 282	(<i>mm</i>) 282	(kg) NA	NA		
2		58007	06/11/2012	282	282	NA NA	NA NA		
3		92257	19/11/2013	300	300	NA	NA		
1		36375	06/11/2015	NA	NA				
			Qualifica	signatur	es				
Manufacture	r:	Prepared	by/Date:		Checked by/Date:				
		9			J.G.				
		Carlos Ai	rieta No	ov. 2016	Aitor González Nov. 2016				
The manufac	NO	ORSOK M	-650 for supply o	of the above list	ed product	s and materia			
This acceptan									
	vai	lid for his p	empt any purchas products within the empany name/ad	ne essential vai	riables of N Signature	ORSOK M-6	20.122016		

				QTR			QIF	R. No.: 2		
ACERALAV	Ά	Qualification Test Record NORSOK M-650 EDITION 4						Rev. No.:6		
TUBÂCEX								. IVOO		
Manufacturer name/address/ Web page: Reference		Tres Cruce	DE ALAVA, S.A.Ues, 8 01400 Llod ex.com M-650 EDITION							
standard		ASTM A47		т						
Material designation and MDS No.:	1	BARS	MDS D57 RE	V. 5 UNS S	32760					
Manufacturing summary doc. No.:		1. MS 32760 HR						Rev. No.: 3		
Products and manufacturing process(es):		1. HOT F	ROLLED BARS							
Mandatory conditions and sub-contractors:	~	Mechanical and corrosion testing carried at TTI Tubacex Tubos Inoxidables, S.A.U. Heat treatment carried out in Guinea Furnace in Acerálava. Heat treatment of UNS S32760 bar according to heat treatment procedure 04.02-C000.00TT-P.001.								
Other informatio	on:	Heat treatment witnessed by SFF (report VHTA-01). Material can be supplied in a non heat treated condition to be later processed to obtain material against a Material Data Sheet. ACERALAVA-TTI do have in house testing facilities to cover all the testing required 22% and 25% Cr reference standards. These laboratories are included in the ISO 90 QA system in compliance with international testing reference standards and working procedures following principles of ISO17025.						esting required by d in the ISO 9001		
Expiry date		Nove	mber	2020						
			ested and		Thickn	ess and	Wei	ght		
Products and manufacturing process(es):	Te	est record No.	Test date	Tested Thickness (mm)	Qualifie thickne (mm)		ght	Qualified weight (kg)		
1			08/11/2012	200						
1	6				200	N/		NA		
		36369	06/11/2015	230	230	N/ N/		NA NA		
		 		230	230	N/	4			
			Qualifica		230 ptance	N/ e signatu	4			
Manufacture				230	230 ptance	N/	4			
	r:	Prepared O	Qualifica by/Date: rrieta No	230 ation/Acce	ptance Checkee	signatu d by/Date:	ıres	Nov. 2016		
The manufac	r: cture	Prepared Carlos Ai r and this Coors Not executed to the second to the	Qualificate by/Date: Trieta No. QTR are evaluate 650 for supply compt any purchase	230 ation/Acce ov. 2016 ed and found to fithe above listes ser from his res	Ptance Checked Aitor Go be in comed produce	e signatud by/Date: nzález npliance with ts and mate to ensure t	the rerials.	Nov. 2016 equirements of		
The manufac	r:	Prepared Carlos Ai er and this Coorsok Midoes not executed	Qualificate by/Date: Trieta No. 2TR are evaluate 650 for supply compt any purchas by ordered by or	230 ation/Acce ov. 2016 ed and found to of the above liste ser from his res	Ptance Checked Aitor Go be in comed produce	e signatud by/Date: nzález npliance with ts and mate y to ensure t	the rerials.	Nov. 2016 equirements of es qualification is		

					QTR. No.: 3					
ACERALAV	/A		Qualificat	_						
TUBÂCEX		NORSOK M-650 EDITION 4						Rev. No.:2		
Manufacturer name/address/ Web page: Reference		Tres Cruc	DE ALAVA, S.A.Ues, 8 01400 Llodex.com M-650 EDITION	lio (Alava) Spai						
standard		ASTM A479								
Material designation and MDS No.:	1	BARS	MDS D57 RE							
Manufacturing summary doc. No.:		1. MS 32750 HR						Rev. No.:		
Products and manufacturing process(es):		1. HOT ROLLED BARS								
Mandatory conditions and sub-contractors		Mechanical and corrosion testing carried at TTI Tubacex Tubos Inoxidables, S.A.U. Heat treatment carried out in Guinea Furnace in Acerálava. Heat treatment of UNS S32750 bar according to heat treatment procedure 04.02-C000.00TT-P.001.								
Other information	on:	Heat treatment witnessed by SFF (report VHTA-01). Material can be supplied in a non heat treated condition to be later processed to obta material against a Material Data Sheet. ACERALAVA-TTI do have in house testing facilities to cover all the testing required & 22% and 25% Cr reference standards. These laboratories are included in the ISO 900 QA system in compliance with international testing reference standards and working procedures following principles of ISO17025. Laboratory is ISO 17025 accredited for tensile, impact and hardness testing.								
Expiry date		NOVEMBER 2020								
			ested and	Qualified '	Thick	ness	and V	Veight		
Products and manufacturing process(es):	Τε	est record No.	Test date	Tested Thickness (mm)	Qualif thickne (mm	ess	Test pied weight (kg)			
1	5	555151	23/07/2012	282	282	_	NA	NA		
			Qualifica	ation/Acce	ptanc	e si	gnatur	es		
Manufacture	r:	Prepared	l by/Date:		Checked by/Date:					
						J.G				
The monufe	oturo	Carlos Arrieta May 2018				Aitor González May. 2018 be in compliance with the requirements of				
	N ce d	IORSOK M oes not exe	-650 for supply o	of the above list ser from his res	ed produ ponsibili	icts ar ty to e		Aug. 1751		
Qualified/Acc		ted by (company name/address):				ed products and materials. sponsibility to ensure that this qualification is riables of NORSOK M-650. Signature/Date: /6.05.20/8				
	(6)	SCANDINAVI	AN FITTINGS & FLANGES AS) F	V					

ACERALA	VA	QTR					QTR. No.: 4			
TUBÂCEX		Qualification Test Record					Rev	. No.: 1		
GROU	P		NO	DRSOK M-6	50 E	ED. 4				
Manufacturer name/address/ Web page:		Acería de Alava, S.A.U. (ACERALAVA) Tres Cruces, 8 01400 Llodio (Alava) Spain Www.tubacex.com Plant Polígono Industrial 01470 Amurrio (Ala								
Reference stand	dard	NOF	RSOK M-650 M A479							
Material designa and MDS No.:	ation	BAR	S	MDS R17 REV. 5						
Manufacturing summary doc. N	Vo.:	1. MS 31254 HF							Rev. No.: 1	
Products and manufacturing process (es):		1. I	HOT FORGE	ED BARS						
Mandatory conditions and s contractors:				orrosion testing carried rried out in furnace na					S.A.U	
Other information		Heat treatment witnessed by Lloyd's Register of Shipping (report VHT TTI-ACERALAVA do have in house testing facilities to cover all the testing 22% and 25% Cr reference standards. These laboratories are included system and work to procedures in compliance with international testing and following principles of ISO 17025 using qualified personnel, approve calibrated equipment. Corrosion testing performed at mid thickness position (T/2) for information intends to use the finished bar for products including the centre of the bar the center of the bar shall be evaluated.						ting real in the property of t	equired by 6Mo, e ISO 9001 QA ence standards ocedures and	
Expiry date:		November 2020								
				ed and Qualified Thic	kness	and Weight				
Products and manufacturing process(es):	Te. reco No	ord	Test date	Tested thickness (mm)		Qualified nickness (mm)	Test pie weight (kg)		Qualified weight (kg)	
1	6304	180	6/11/2015	250 as forged 230 as machined		as forged as machined	NA		NA	
			Æ							
		Τ.		ualification/Acceptar						
Manufactur	er:	Prepared by/Date:				Checked by/Date:				
		Carlos Arrieta December 2016				González	December 2016			
The manufacturer	and this	QTR	are evaluated ar	nd found to be in compliance listed products and i			of NORSOK M	1-650 fc	or supply of the above	
				ser from his responsibility to essential variables of NC	ensure RSOK N	that this qualific 1/-650.	ation is valid t	for his p	products within the	
Qualified/Accepted by (company name/acdress): Signature/Date: 22.12.2016 SCANDINAVIAN FITTINGS & FLANGES AS Signature/Date: 22.12.2016								12. 2016		
					V					