

















ACERALAVA TUBACEX <small>GROUP</small>	QTR Qualification Test Record NORSOK M-650 EDITION 4					QTR. No.: 1
						Rev. No.: 8
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 A479					
Material designation and MDS No.:	BARS MDS D47 REV. 5 UNS S 31803 / UNS S 32205					
Manufacturing summary doc. No.:	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.U. 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 information:	Qualification testing 563327, 558007 & 592257 has been carried out to MDS D47 rev 4. 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 obtain material against a Material Data Sheet. ACERALAVA-TTI do have in house testing facilities to cover all the testing required by 22% and 25% Cr reference standards. These laboratories are included in the ISO 9001 QA system in compliance with international testing reference standards and working to procedures following principles of ISO17025.					
Expiry date	November 2020					
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	563327	08/11/2012	282	282	NA	NA
2	558007	06/11/2012	282	282	NA	NA
3	592257	19/11/2013	300	300	NA	NA
1	636375	06/11/2015	330	330	NA	NA
Qualification/Acceptance signatures						
Manufacturer:	Prepared by/Date:  Carlos Arrieta Nov. 2016		Checked by/Date:  Aitor González Nov. 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):  SCANDINAVIAN FITTINGS & FLANGES AS			Signature/Date:  20.12.2016			

ACERALAVA 	QTR Qualification Test Record NORSOK M-650 EDITION 4		QTR. No.: 2			
			Rev. No.: 6			
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 A479					
Material designation and MDS No.:	BARS MDS D57 REV. 5 UNS S 32760					
Manufacturing summary doc. No.:	1. MS 32760 HR				Rev. No.: 3	
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 S32760 bar according to heat treatment procedure 04.02-C000.00TT-P.001.					
Other information:	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 by 22% and 25% Cr reference standards. These laboratories are included in the ISO 9001 QA system in compliance with international testing reference standards and working to procedures following principles of ISO17025.					
Expiry date	November 2020					
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	563338	08/11/2012	200	200	NA	NA
1	636369	06/11/2015	230	230	NA	NA
Qualification/Acceptance signatures						
Manufacturer:	Prepared by/Date:		Checked by/Date:			
	 Carlos Arrieta Nov. 2016		 Aitor González Nov. 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: 20.12.2016 			

ACERALAVA TUBACEX <small>GROUP</small>	QTR Qualification Test Record NORSOK M-650 EDITION 4					QTR. No.: 3
						Rev. No.:2
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 A479					
Material designation and MDS No.:	BARS MDS D57 REV. 5 UNS S 32750					
Manufacturing summary doc. No.:	1. MS 32750 HR					Rev. No.: 1
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:	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 by 22% and 25% Cr reference standards. These laboratories are included in the ISO 9001 QA system in compliance with international testing reference standards and working to procedures following principles of ISO17025. Laboratory is ISO 17025 accredited for tensile, impact and hardness testing.					
Expiry date	NOVEMBER 2020					
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	555151	23/07/2012	282	282	NA	NA
Qualification/Acceptance signatures						
Manufacturer:	Prepared by/Date:  Carlos Arrieta May 2018			Checked by/Date:  Aitor González May. 2018		
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):  SCANDINAVIAN FITTINGS & FLANGES AS				Signature/Date: 16.05.2018 		

ACERALAVA TUBACEX <small>GROUP</small>	QTR Qualification Test Record NORSOK M-650 ED. 4		QTR. No.: 4			
			Rev. No.: 1			
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 de Saracho s/n 01470 Amurrio (Alava) Spain			
Reference standard	NORSOK M-650 EDITION 4 ASTM A479					
Material designation and MDS No.:	BARS MDS R17 REV. 5					
Manufacturing summary doc. No.:	1. MS 31254 HF			Rev. No.: 1		
Products and manufacturing process (es):	1. HOT FORGED BARS					
Mandatory conditions and sub-contractors:	Mechanical and corrosion testing carried at TTI Tubacex Tubos Inoxidables, S.A.U Heat treatment carried out in furnace named Guinea in Acerálava plant.					
Other information:	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.					
Expiry date:	November 2020					
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 