


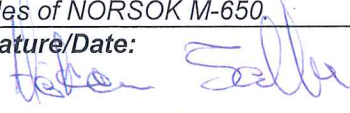





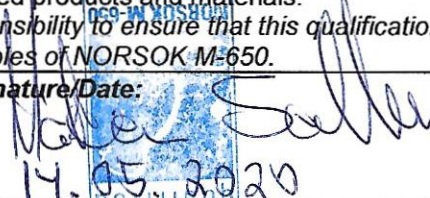
	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: 015
					Rev. No.: 0
Manufacturer name/address/ Web page:	voestalpine BÖHLER Edelstahl GmbH & Co KG Mariazellerstrasse 25 8605 Kapfenberg, Austria www.voestalpine.com/boehler-edelstahl				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	MDS R17, Revision 5, UNS S31254, BEG Brand "A965SA"				
Manufacturing Summary doc. No.:	A965SA 00004			Rev. No.: 002	
Products and manufacturing process(es):	Bars: Forged				
Mandatory conditions and sub-contractors:	Fabrication and testing plan acc. to qualification plan Heat Treatment Furnace 41, 42, 43, 44 for forged bars				
Other information:	ASTM A479/A479M-18 ESR material Heat Treatment Temperature: 1150°C				
Qualification expires:	08/2023				
Tested and qualified thickness and weight					
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
Forged bar	441B, 441M	200	200	1400	all
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: G. Einoedhofer / 05.07.2018	Checked by/Date: M. Haspel / 05.07.2018			
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):			Signature/Date:		
			Håkan Salla 08.08.2018		

	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: 016
	Rev. No.: 0				
Manufacturer name/address/ Web page:	voestalpine BÖHLER Edelstahl GmbH & Co KG Mariazellerstrasse 25 8605 Kapfenberg, Austria www.voestalpine.com/boehler-edelstahl				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	MDS D57, Revision 5, UNS S32750 BEG Brand "A913"				
Manufacturing Summary doc. No.:	A913 00001 A913 00002 A913 00003	Rev. No.:002 002 002			
Products and manufacturing process(es):	Bars: Rolled and forged				
Mandatory conditions and sub-contractors:	Fabrication and testing plan acc. to qualification plan Heat Treatment Furnace 88 for rolled bars Heat Treatment Furnace 41, 42, 43, 44 for forged bars				
Other information:	ASTM A479/A479M-18 Heat Treatment Temperature: 1060°C				
Qualification expires:	08/2023				
Tested and qualified thickness and weight					
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
Rolled bar	394M, 395S	130	130	600	all
Forged bar	326S, 356M	203.2	200	810	all
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: G. Einoedhofer / 05.07.2018	Checked by/Date: M. Haspel / 05.07.2018			
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):			Signature/Date:  08.08.2018		


	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: 017
					Rev. No.: 0
Manufacturer name/address/ Web page:	voestalpine Böhler Edelstahl GmbH Mariazellerstrasse 25 8605 Kapfenberg, Austria www.boehler-edelstahl.com				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	MDS D57 Revision 5, UNS S32550, BEG Brand "A926"				
Manufacturing Summary doc. No.:	A926 00001			Rev. No.: 001	
Products and manufacturing process(es):	Bars: forged				
Mandatory conditions and sub-contractors:	Fabrication and testing plan acc. to qualification plan Heat Treatment Furnace 41, 42, 43, 44 for forged bars				
Other information:	ASTM A479/A479M-19 MDS D57 Rev. 5 Heat treatment temperature: 1060°C				
Qualification expires:	04/2025				
Tested and qualified thickness and weight					
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
Forged bar	328S, 328M	177,8	177,8	895	all
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Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: G. Einödhofer / 03.04.2020 <small>Digital signiert von Einödhofer Georg - U102179 Datum: 2020.04.03 10:17:06</small>	Checked by/Date: M. Haspel / 03.04.2020 <small>ETE / Haspel Michael Datum: 2020.04.03 10:42:39</small>			
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:		
					

Einödhofer Georg

Haspel

	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: 018	
	Rev. No.: 0					
Manufacturer name/address/ Web page:	voestalpine Böhler Edelstahl GmbH Mariazellerstrasse 25 8605 Kapfenberg, Austria www.boehler-edelstahl.com					
Reference standard	NORSOK M-650, Edition 4					
Material designation and MDS No.:	MDS D57 Revision 5, UNS S32550, BEG Brand "A926"					
Manufacturing Summary doc. No.:	A926 00004				Rev. No.: 000	
Products and manufacturing process(es):	Bars: forged					
Mandatory conditions and sub-contractors:	Fabrication and testing plan acc. to qualification plan Furnace 41, 42, 43, 44 for forged bars					
Other information:	ASTM A479/A479M-19 MDS D57 Rev. 5 ESR material Heat treatment temperature: 1060°C					
Qualification expires:	04/2025					
Tested and qualified thickness and weight						
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg	
Forged bar	331B, 331M	203,2	200	1230	all	
				---	---	
Qualification/acceptance signatures						
Manufacturer:	Prepared by/Date: G. Einoedhofer / 03.04.2020 U102179	<small>Digital signiert von: Georg Einoedhofer DN: cn=Einoedhofer, o=voestalpine, ou=U102179 Datum: 2020.04.03 10:18:35 +0200</small>	Checked by/Date: W. Haspel / 03.04.2020	<small>ETE / Haspel Michael 2020.04.03 10:43:12</small>		
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:  14.05.2020		


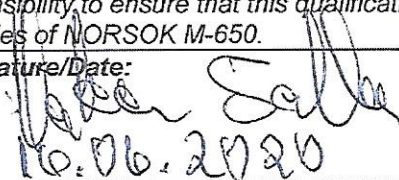



	Qualification Test Record (QTR) NORSOK M-650		QTR. No.: 019
			Rev. No.: 0
Manufacturer name/address/ Web page:	voestalpine Böhler Edelstahl GmbH & Co KG Mariazellerstrasse 25 8605 Kapfenberg, Austria www.boehler-edelstahl.com		
Reference standard	NORSOK M-650, Edition 4		
Material designation and MDS No.:	Böhler N425 / UNS S41427 MDS vaBÖHLER N425 110ksi		
Manufacturing Summary doc. No.:	TMP N425 00001	Rev. No.: 000	
Products and manufacturing process(es):	Bars, forged		
Mandatory conditions and sub-contractors:	Fabrication and testing plan acc. to Böhler MDS. Heat treatment with heat sink, in a furnace qualified acc. to AMS 2750, no furnace qualification acc. to M650.		
Other information:			
Qualification expires:	06/2025		



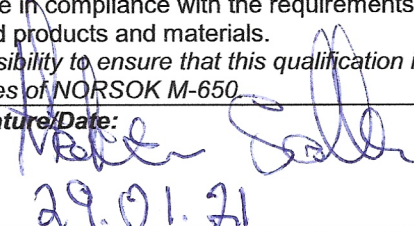
Tested and qualified thickness and weight



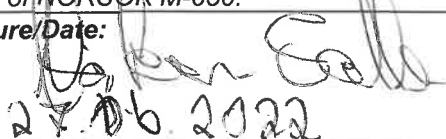
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
Forged bar	307S, 307M, 307B	241,3 mm	101,6-254 mm	2040	all



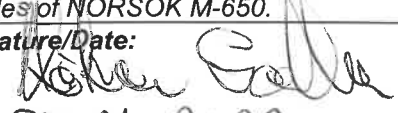
Qualification/acceptance signatures


Manufacturer:	Prepared by/Date: Perko, 15.05.2020	Checked by/Date: Haspel, 15.05.2020
<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. 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: 	Signature/Date:  10.06.2020	


P.I. NICE
EQUINOR ASA
27.07.2020.

	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: 020
					Rev. No.: 0
Manufacturer name/address/ Web page:	voestalpine Böhler Edelstahl GmbH & Co KG Mariazellerstrasse 25 8605 Kapfenberg, Austria www.boehler-edelstahl.com				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	Böhler N425 / UNS S41427 MDS vaBÖHLER N425 95ksi				
Manufacturing Summary doc. No.:	TMP N425 00002				Rev. No.: 000
Products and manufacturing process(es):	Bars, forged				
Mandatory conditions and sub-contractors:	Fabrication and testing plan acc. to Böhler MDS. Heat treatment with heat sink, in a furnace qualified acc. to AMS 2750, no furnace qualification acc. to M650.				
Other information:					
Qualification expires:	02/2026				
Tested and qualified thickness and weight					
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
Forged bar	305S, 305M, 306B	241,3 mm	101,6-254 mm	2395,0	all
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: Perko, 22.01.2021	Checked by/Date: Haspel, 22.01.2021			
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:		
					

	Qualification Test Record (QTR) NORSOK M-650		QTR. No.: 023		
			Rev. No.: 0		
Manufacturer name/address/ Web page:	voestalpine Böhler Edelstahl GmbH & Co KG Mariazellerstrasse 25 8605 Kapfenberg, Austria www.boehler-edelstahl.com				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	MDS D47, Revision 5, UNS S31803/S32205, BEG Brand "A903"				
Manufacturing Summary doc. No.:	A903 00001 A903 00002 A903 00003			Rev. No.: 002 002 002	
Products and manufacturing process(es):	Bars: Rolled and forged				
Mandatory conditions and sub-contractors:	Fabrication and testing plan acc. to qualification plan Heat Treatment Furnace 88 for rolled bars Heat Treatment Furnace 41, 42, 43, 44 for forged bars				
Other information:	ASTM A479/A479M-21 Heat Treatment Temperature: 1060°C				
Qualification expires:	06/2027				
Tested and qualified thickness and weight					
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
Rolled bar	387S, 378M	130	130	535	all
Forged bar	321S, 321M	203.2	203.2	1115	all
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: G. Einoedhofer / 27.06.2022	Checked by/Date: M. Haspel / 27.06.2022			
<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):			Signature/Date:  27.06.2022		

	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: 024	
					Rev. No.: 0	
Manufacturer name/address/ Web page:	voestalpine Böhler Edelstahl GmbH & Co KG Mariazellerstrasse 25 8605 Kapfenberg, Austria www.boehler-edelstahl.com					
Reference standard	NORSOK M-650, Edition 4					
Material designation and MDS No.:	MDS D57, Revision 5, UNS S32760 BEG Brand "A911SA"					
Manufacturing Summary doc. No.:	A911SA 00007 A911SA 00008 A911SA 00009				Rev. No.:002 002 002	
Products and manufacturing process(es):	Bars: Rolled and forged					
Mandatory conditions and sub-contractors:	Fabrication and testing plan acc. to qualification plan Heat Treatment Furnace 88 for rolled bars Heat Treatment Furnace 41, 42, 43, 44 for forged bars					
Other information:	ASTM A479/A479M-21 Heat Treatment Temperature: 1100°C					
Qualification expires:	06/2027					
Tested and qualified thickness and weight						
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg	
Rolled bar	9S, 9M	130	130	500	all	
Forged bar	420S, 420M	203.2	200	945	all	
Qualification/acceptance signatures						
Manufacturer:	Prepared by/Date: G. Einoedhofer / 27.06.2022		Checked by/Date: M. Haspel / 27.06.2022			
voestalpine BÖHLER Edelstahl GmbH & Co KG ETE - Technologie Energy Mariazeller Straße 25 8605 Kapfenberg Austria						
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:			
			 27.06.2022			

	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: 025
					Rev. No.: 0
Manufacturer name/address/ Web page:	voestalpine Böhler Edelstahl GmbH & Co KG Mariazellerstrasse 25 8605 Kapfenberg, Austria www.boehler-edelstahl.com				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	MDS D57, Revision 5, UNS S32550, BEG Brand "A926"				
Manufacturing Summary doc. No.:	A926 00002 A926 00003				Rev. No.: 002 002
Products and manufacturing process(es):	Bars: Rolled				
Mandatory conditions and sub-contractors:	Fabrication and testing plan acc. to qualification plan Heat Treatment Furnace 88 for rolled bars				
Other information:	ASTM A479/A479M-21 Heat Treatment Temperature: 1060°C				
Qualification expires:	06/2027				
Tested and qualified thickness and weight					
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
Rolled bar	389S, 389M	130	130	520	all
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: G. Einoedhofer / 27.06.2022	Checked by/Date: M. Haspel / 27.06.2022 voestalpine Böhler Edelstahl GmbH & Co KG Technologie Energy Mariazeller Straße 25 8605 Kapfenberg, Austria			
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:  27.06.2022		

	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: 026
					Rev. No.: 0
Manufacturer name/address/ Web page:	voestalpine Böhler Edelstahl GmbH & Co KG Mariazellerstrasse 25 8605 Kapfenberg, Austria www.boehler-edelstahl.com				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	MDS R17, Revision 5, UNS S31254, BEG Brand "A965SA"				
Manufacturing Summary doc. No.:	A965SA 00002 A965SA 00003	Rev. No.: 002 002			
Products and manufacturing process(es):	Bars: Rolled				
Mandatory conditions and sub-contractors:	Fabrication and testing plan acc. to qualification plan Heat Treatment Furnace 60 for rolled bars				
Other information:	ASTM A479/A479M-21 Heat Treatment Temperature: 1150°C				
Qualification expires:	06/2027				
Tested and qualified thickness and weight					
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
Rolled bar	363B, 363M	130	130	500	all
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: G. Einoedhofer / 27.06.2022	Checked by/Date: M. Haspel / 27.06.2022 voestalpine Böhler Edelstahl GmbH & Co KG ETE - Technologie Energy Mariazeller Straße 25 8605 Kapfenberg Austria			
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:  27.06.2022				

