
	<b>QTR</b> <b>Qualification Test Record</b> <b>NORSOK M-650</b>				QTR. No.: 001
					Rev. No.: 2
Manufacturer name/address/ Web page:	COGNE ACCIAI SPECIALI S.p.a. Via Paravera, 16 – 11100 AOSTA Italy				
Reference standard	NORSOK M-650 REV. 3				
Material designation and MDS No.:	ASTM A276 UNS S31803 UNS S32205 MDS D47, Rev. 3				
Manufacturing summary doc. No.:	Ms 01	Rev. No.: 2			
Products and manufacturing process(es):	Bars, rolled (from Concast billet $\phi$ 160), water cooling, solution annealed and peeled Minimum reduction ratio: 3,0:1 Heat treatment: solution annealing.  Furnace CH2T : 1050°C; maintaining: 1,5'/mm (diameter), cooling in forced air 1' ( $\phi \leq 50$ mm), water cooling.				
Mandatory conditions and sub-contractors:					
Other information:	QTR also meets the requirements of MDS D47 Rev.4, ASTM A479				
<b>Tested and Qualified Thickness and Weight</b>					
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)
Bars rolled and peeled ( End Bar )	2011012431	101.60	50 – 101.6		
Bars rolled and peeled ( Middle Bar )	2011040944	101.6	50 – 101.6		
<b>Qualification/Acceptance signatures</b>					
<b>Manufacturer:</b>	Prepared by/Date: Varisellaz Massimo – 03/06/11	Checked by/Date: Marco Farinet – 03/06/11			
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.					
<b>Qualified/Accepted by</b> (company name/address):			Signature/Date:		


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11100 AOSTA



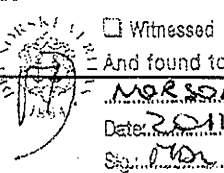
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And found to comply with	
NORSOK M-650	
Date: 2011-06-03	
Sig: MFL	
Det Norske Veritas MILAN	

	<b>QTR</b> <b>Qualification Test Record</b> <b>NORSOK M-650</b>				QTR. No.: 002
					Rev. No.: 1
Manufacturer name/address/ Web page:	COGNE ACCIAI SPECIALI S.p.a. Via Paravera, 16 – 11100 AOSTA Italy				
Reference standard	NORSOK M-650 REV. 3				
Material designation and MDS No.:	ASTM A276 UNS S31803 UNS S32205 MDS D47, Rev. 3				
Manufacturing summary doc. No.:	MS 02				Rev. No.: 0
Products and manufacturing process(es):	Bars Hammer forged and rough peeled Minimum reduction ratio: 4,6:1 Heat treatment: solution annealing.  <u>Furnace Felind 4</u> : 1050°C; maintaining: 1,5'/mm (diameter), water cooling.  <u>Furnace SOTTRI 2 – 3</u> : 1050°C; maintaining: 1,5'/mm (diameter), water cooling.				
Mandatory conditions and sub-contractors:					
Other information:	Qtr also meets the requirements of : MDS D47 Rev.4 ASTM A479				
<b>Tested and Qualified Thickness and Weight</b>					
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)
Bars forged and rough peeled ( End Bar )	2011012442	310	310		
Bars forged and rough peeled ( Middle Bar )	2011040740	310	310		
<b>Qualification/Acceptance signatures</b>					
<b>Manufacturer:</b>	Prepared by/Date: Varisellaz Massimo – 03/06/11		Checked by/Date: Marco Farinet – 03/06/11		
<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>					
<b>Qualified/Accepted by</b> (company name/address):			<b>Signature/Date:</b>		


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	<input type="checkbox"/> Witnessed	<input checked="" type="checkbox"/> Reviewed
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Date: 2011-06-03		
Sig.: MAL		
Det Norske Veritas MILAN		


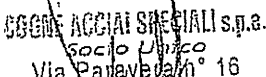
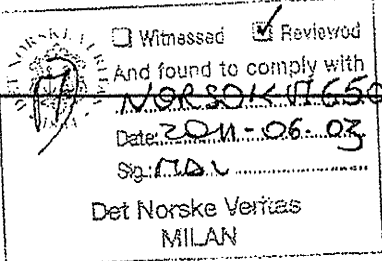
	<b>QTR</b> <b>Qualification Test Record</b> <b>NORSOK M-650</b>				QTR. No.: 003
					Rev. No.: 1
Manufacturer name/address/ Web page:	COGNE ACCIAI SPECIALI S.p.a. Via Paravera, 16 – 11100 AOSTA Italy				
Reference standard	NORSOK M-650 REV. 3				
Material designation and MDS No.:	ASTM A276 UNS S32760 MDS D57, Rev. 3				
Manufacturing summary doc. No.:	MS 03	Rev. No.: 0			
Products and manufacturing process(es):	Bars, rolled (from Concast billet $\diamond$ 160) and peeled Minimum reduction ratio: 3,0:1 Heat treatment: solution annealing.  <u>Furnace FELIND4</u> : 1120°C; maintaining: 1,5'/mm (diameter); cooling slowly in furnace closed and set to 1000°C; water cooling.				
Mandatory conditions and sub-contractors:					
Other information:	QTR meets also the requirements of MDS D57 Rev.4, ASTM A479				
<b>Tested and Qualified Thickness and Weight</b>					
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)
Bars rolled and peeled ( End Bar )	2011013407	101,60	101,60		
Bars rolled and peeled ( Middle Bar )	2011040731	101,6	101,6		
<b>Qualification/Acceptance signatures</b>					
Manufacturer:	Prepared by/Date: Varisellaz Massimo – 03/06/11	Checked by/Date: Marco Farinet – 03/06/11			
<i>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.</i>					
Qualified/Accepted by (company name/address):			Signature/Date:		
 COGNE ACCIAI SPECIALI s.p.a. Socio Unico Via Paravera n° 16 11100 AOSTA			 <input type="checkbox"/> Witnessed <input checked="" type="checkbox"/> Reviewed And found to comply with NORSOK M-650 Date: 2011-06-03 Sig.: MF		


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	<b>QTR</b> <b>Qualification Test Record</b> <b>NORSOK M-650</b>				QTR. No.: 004	
					Rev. No.: 1	
					Rev. no.: 1	
					MS 04 – Rev. 1	
Manufacturer name/address/ Web page:	COGNE ACCIAI SPECIALI S.p.a. Via Paravera, 16 – 11100 AOSTA Italy					
Reference standard	NORSOK M-650 REV. 3					
Material designation and MDS No.:	ASTM A276 UNS S32760 MDS D57, Rev. 3					
Manufacturing summary doc. No.:	MS 04				Rev. No.: 0	
Products and manufacturing process(es):	Bars, Hammer forged and rough peeled Minimum reduction ratio: 5,8:1 Heat treatment: solution annealing.  Furnace Felind 4: 1120°C; maintaining: 1,5'/mm (diameter); cooling slowly in furnace closed and set to 1000°C; water cooling.					
Mandatory conditions and sub-contractors:						
Other information:	QTR meets the requirements of MDS D57 Rev.4, ASTM A479					
<b>Tested and Qualified Thickness and Weight</b>						
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)	
Bars forged and rough peeled ( End Bar )	2011013544	215,9	215,9			
Bars forged and rough peeled ( Middle Bar )	2011040693	215,9	215,9			
<b>Qualification/Acceptance signatures</b>						
<b>Manufacturer:</b>	Prepared by/Date: Varisellaz Massimo – 03/06/11	Checked by/Date: Marco Farinet – 03/06/11				
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.						
<b>Qualified/Accepted by</b> (company name/address):			Signature/Date:			

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	<input type="checkbox"/> Witnessed	<input checked="" type="checkbox"/> Reviewed
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Date: <b>2011-06-03</b>		
Sig: <b>MDL</b>		
Det Norske Veritas MILAN		

	<b>QTR</b> <b>Qualification Test Record</b> <b>NORSOK M-650</b>				QTR. No.: 006	
					Rev. No.: 1	
Manufacturer name/address/ Web page:		COGNE ACCIAI SPECIALI S.p.a. Via Paravera, 16 – 11100 AOSTA Italy				
Reference standard		NORSOK M-650 REV. 3				
Material designation and MDS No.:		ASTM A276 UNS S31803 UNS S32205 MDS D47, Rev. 3				
Manufacturing summary doc. No.:		MS 06			Rev. No.: 1	
Products and manufacturing process(es):		Bars, rolled (from Concast billet ♦ 220x270) and peeled Minimum reduction ratio: 3,5:1 Heat treatment: solution annealing.  <u>Furnace Sottri 2-3 or Flind 4 :</u> 1050°C; maintaining: 1,5'/mm (diameter), water cooling.				
Mandatory conditions and sub-contractors:						
Other information:		QTR also meets the requirements of MDS D47 Rev.4, ASTM A479				
<b>Tested and Qualified Thickness and Weight</b>						
Products and manufacturing process(es):		Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	Qualified weight (kg)
Bars rolled and rough peeled (End Bar)		2011012440	140	102 - 140		
Bars rolled and rough peeled (Middle Bar)		2011040732	140	102 - 140		
<b>Qualification/Acceptance signatures</b>						
<b>Manufacturer:</b>		Prepared by/Date: Varisellaz Massimo – 03/06/11		Checked by/Date: Marco Farinet – 03/06/11		
<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>						
<b>Qualified/Accepted by (company name/address):</b>				<b>Signature/Date:</b>		
 <p>COGNE ACCIAI SPECIALI S.p.a. Socio Unico Via Paravera n° 16 11100 AOSTA</p>				 <p><input type="checkbox"/> Witnessed <input checked="" type="checkbox"/> Reviewed And found to comply with <b>NORSOK M-650</b> Date: 2011-06-03 Sig: M.F. Det Norske Veritas MILAN</p>		

	<b>QTR</b> <b>Qualification Test Record</b> <b>NORSOK M-650</b>		QTR. No.: 007
			Rev. No.: 0
Manufacturer name/address/ Web page:	COGNE ACCIAI SPECIALI S.p.a. Via Paravera, 16 – 11100 AOSTA Italy		
Reference standard	NORSOK M-650 REV. 3		
Material designation and MDS No.:	ASTM A276 UNS S31254 MDS R17, Rev. 3		
Manufacturing summary doc. No.:	MS 07	Rev. No.: 1	
Products and manufacturing process(es):	Bars Hammer forged and rough peeled Minimum reduction ratio: 7:1 Heat treatment: solution annealing.  <u>Felind 4</u> : 1130°C; maintaining: 17mm (diameter), water cooling.		
Mandatory conditions and sub-contractors:			
Other information:	QTR also meets the requirements of MDS R17 Rev.4, ASTM A479		

**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)
Bars forged and rough peeled ( End bar )	2011040745	185	185		
Bars forged and rough peeled ( Middle bar )	2011040746	185	185		


**Qualification/Acceptance signatures**


<b>Manufacturer:</b>	Prepared by/Date: Varisellaz Massimo – 03/06/11	Checked by/Date: Marco Farinet – 03/06/11
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*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.*

<b>Qualified/Accepted by</b> (company name/address):	<b>Signature/Date:</b>
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**NORSOK M-650**  
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 Sig.: MA  
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	<b>QTR</b> <b>Qualification Test Record</b> <b>NORSOK M-650</b>	QTR. No.: 008
		Rev. No.: 0
Manufacturer name/address/ Web page:	COGNE ACCIAI SPECIALI S.p.a. Via Paravera, 16 – 11100 AOSTA Italy	
Reference standard	NORSOK M-650 REV. 3	
Material designation and MDS No.:	ASTM A276 UNS S31254 MDS R17, Rev. 3	
Manufacturing summary doc. No.:	MS 08	Rev. No.: 1
Products and manufacturing process(es):	Bars rolled and peeled Minimum reduction ratio: 3,8:1 Heat treatment: solution annealing.  <u>CH2T</u> : 1130°C; maintaining: 17mm (diameter), water cooling.	
Mandatory conditions and sub-contractors:		
Other information:	QTR meets also the requirements of MDS R17 Rev.4, ASTM A479	

**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)
Bars forged and rough peeled ( End Bar )	2011013659	90	90		
Bars forged and rough peeled ( Middle Bar )	2011040697	90	90		


**Qualification/Acceptance signatures**

<b>Manufacturer:</b>	Prepared by/Date: Varisellaz Massimo – 03/06/11	Checked by/Date: Marco Farinet – 03/06/11
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*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.*

<b>Qualified/Accepted by</b> (company name/address):	<b>Signature/Date:</b>
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COGNE ACCIAI SPECIALI s.p.a.  
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Via Paravera n° 16  
11100 AOSTA

	<input type="checkbox"/> Witnessed <input checked="" type="checkbox"/> Reviewed
	And found to comply with
	<b>NORSOK M-650</b>
	Date: 2011-06-03
	Sig. T.D.C.
Det Norske Veritas MILAN	