

QTR QUALIFICATION TEST RECORD NORSOK M-650 Rev.4

QTR 01Ti

Rev. No. 4

Titalia S.p.A.							
Manufacturer Name/addre	Via Don Li	TITALIA S.p.A Via Don Luigi Talamoni 83, 20861 Brugherio MB www.titalia.it					
Reference standard		NORSOK	NORSOK M-650 REV. 4				
Material designation and	MDS no.	ASME/AS	ASME/ASTM SB/B381 F1/F2 - NORSOK MDS T24 Rev.1				
Manufacturing summary	doc. No.	MS TI 01 I	Rev.2				
Products and manufacturi	ng process(es):	Forged Dis	cs - Shafts – Bar	rs – Rings - Nozzles			
Mandatory conditions and	Forging De	HEAT TREATMENT IN HOUSE at TITALIA S.P.A. Forging Department: - Via S. Giovanni Battista 18/20 Plemo D'Esine (BS)					
Other information		and nozzle 3.2 certified Equinor G Verification	s acc. to M650 R d production tes L-0081	es F1/F2 bars, sha Rev.4 – M-630:2020 ting as accepted by tment procedure of eport 022/2021	- qualified with		
Qualification expires:			ber 2020				
T	est and Qu	ualified Thi	THE REPORT OF THE PROPERTY OF THE PARTY OF T				
Products and manufacturing process	Test record Number	Tested Thickness (mm)	Test piece Weight (kg)	Qualified Thickness (mm)	Qualified Weight (Kg)		
Forged Disc	2021060488	350 mm	650 kg	400 mm Max	All		
Forged Ring/Nozzle	2021060450	180 mm	200 Kg	225 mm Max	All		
Rolled Ring/Nozzle	2021060449	180 mm	200 Kg	225 mm Max	All		
Forged Bar/Shaft	2021060451	Ø 320 mm	400 kg	Ø 400 mm Max	All		
		Documen	tation				
Manufactory summary Quality Control Plan: . Test sampling for Qual Test sampling for Prod Mill Certificate: Heat Treat. chart by Ti	ification: uction:	QCP TI 01RE MS TI 01/A-B MS TI 01/A-B ZTMC 0045/2	V 2 -C-D Rev. 2 -C-D-E Rev. 2 -19 - H.0292-19		1.502-019059		

	Qualification/acceptance	signature
Manufacturer:	Prepared by /Date:	Checked by

Quality Assurance System: ISO 9001:2015- Directive 2104/68UE Ped 0029827

TITALIA S.p.A. P. Loffredi – A. Ferrara

Checked by Date:

Cert. Nr. LRC/10178023/QMS/U/EN ISSUED 11/03/2019

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 Rev.4 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 Rev.4

Qualified/Accepted by:	
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AkerSolutions
Fornebu, Norway

NO 929 877 950 VAT

Signature/Date:

12/11/2021

OTR QUALIFICATION TEST RECORD NORSOK M-650 Rev.4

QTR 05Ti

Rev No 4

Titalia S.p.A.						Rev. No. 4		
Manufacturer Name/address/web pages				LIA S.p.A	1.02 .000			
			Via Do	Via Don Luigi Talamoni 83, 20861 Brugherio MB www.titalia.it				
Reference standard		notes that were directly as you		itana.it OK M-650 REV	1			
Material designation and	MDS no			The state of the s				
Manufacturing summary				ASME/ASTM SB/B381 F5 MS TI 05 Rev.2				
Products and manufacturi					D Di			
Mandatory conditions and	d sub-contractors	2	HEAT	Discs - Shafts -	Bars - Rings - Noz	zles		
Mandatory conditions and sub-contractors					IN HOUSE at TIT	ALIA S.P.A.		
*			Forging Department: - Via S. Giovanni Battista 18/20 Plemo D'Esine (BS)					
Other information					ades F5 discs, rings			
			accord	ing to M650 Rev	.4 - M-630:2020 fo	llowing MDS T24		
			- qualif	fied with 3.2 cert	ified production te	sting as accepted		
				inor GL-0081				
			proced	anon of Heat Tr	eatment procedure 2 and Report 022/2	carried out, ref		
Qualification expires:				umber 20		021		
T	est and Qu	ualifi	ed Th	nickness an	d Weight			
Products and	Test record	Tested		Test piece	Qualified	Qualified Weight		
manufacturing process	Number	Thickness (mm)		Weight (kg)	Thickness (mm)	(Kg)		
Forged Disc	2021060637	260 mm		270 kg	325 mm Max	All		
Forged Ring/Nozzle	2021060639	180 mm		200 Kg	225 mm Max	All		
Rolled Ring/Nozzle	2021060640	180 mm		200 Kg	225 mm Max	All		
Forged Bar/Shaft	2021060638	Ø 320 mm		350 kg	Ø 400 mm Max	All		
		_						
		Do	cumei	ntation				

Qualification/acceptance signature Manufacturer:

Heat Treat. chart by Titalia: Report Nr. 11/2021- Date: 17/06/2021

Test sampling for Production: MS TI 05/A-B-C-D-E Rev. 2

TITALIA S.p.A.

Prepared by /Date:

Quality Assurance System: ISO 9001:2015- Directive 2104/68UE Ped 0029827

Checked by/ Date: Ferrara

Cert. Nr. LRC/10178023/QMS/U/EN ISSUED 11/03/2019

P. Loffredi - A. Ferrara

The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 Rev.4 for supply of the above listed products and materials.

Mill Certificate: VSMPO 04991Y18 - H.8-03-07062 / WTT 0009389 - H.534-620219

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 Rev.4

Qualified/Accepted by:

Mar Aker Solutions Fornebu, Norway NO 929 877 950 VAT

Signature/Date:

mature/Date: 12/11/2021

QTR QUALIFICATION TEST RECORD NORSOK M-650 Rev.4

QTR 07Ti

		NORSOR	7 IVI-020 K	ev.4	Rev. No. 4		
Titalia S.p.A.					110111011		
Manufacturer Name/address/web pages			TITALIA S.p.A Via Don Luigi Talamoni 83, 20861 Brugherio MB www.titalia.it				
Reference standard		NORSO	NORSOK M-650 REV. 4				
Material designation and M	MDS no.	ASME/	ASTM SB/B38	1 F2 - NORSOK M	DS T24 Rev.1		
Manufacturing summary d		07 Rev.2					
Products and manufacturing	: Open D	Open Die Forged Flanges – Roll Mill Forged Flanges					
Mandatory conditions and	Forging	HEAT TREATMENT IN HOUSE at TITALIA S.P.A. Forging Department: - Via S. Giovanni Battista 18/20 Plemo D'Esine (BS)					
Other information		Rev.4 – produc Verifica	M-630:2020 - c tion testing as a ation of Heat T	rade F1/F2 flanges a qualified with 3.2 co accepted by Equino reatment procedure ad Report 022/2021	ertified r GL-0081		
Qualification expires:	5	Nov	rember &	2026			
T	est and C	Dualified Th	nickness a	nd Weight			
Products and manufacturing process	Test record	Tested Thickness (mm)	Test piece Weight (kg)	Qualified	Qualified Weigh (Kg)		
Open Die Forged Flange	2021070180	180 mm	190 kg	225 mm Max	All		
Roll Mill Forged Flange	2021070181	180 mm	190 Kg	225 mm Max	All		
		Docume	ntation				
Manufactory summary Quality Control Plan: Test sampling for Quali Test sampling for Produ Mill Certificate: Heat Treat. chart by Tir Quality Assurance Syste	fication: uction: talia:	QCP TI 07R MS TI 07/A MS TI 07/A ZTMC 0045 Report Nr. 1 ISO 9001:20	EV 2 -B-C-D Rev. 2 -B-C-D-E Rev. /2-19 - H.0292- 11/2021 Date: 2 15- Directive 2	19 / WTT 0008853 - 7/06/2021	827		
	Qualifi	ication/acce	eptance sig	gnature			
TITALIA S.p.A. P. Loffredi		epared by /Date: Loffredi – A. Ferr	rara A	Checked by/ Date: A. Ferrara			
The manufacturer and this M-650 Rev.4 for supply of This acceptance does not for his products within the	f the above lise exempt any pu	sted products and inchaser from his in tables of NORSOI	materials. responsibility to	ensure that this qual	ification is valid		
Qualified/Accepted by:	AkerS Fornebu, NO 929 877	Solutions Norway	Signature/Date	: 12/11 Ulihlalda	12021		