 Titalia S.p.A.	QTR QUALIFICATION TEST RECORD NORSOK M-650 Rev.4	QTR 01Ti
		Rev. No. 4

Manufacturer Name/address/web pages	TITALIA S.p.A Via Don Luigi Talamoni 83, 20861 Brugherio MB www.titalia.it
Reference standard	NORSOK M-650 REV. 4
Material designation and MDS no.	ASME/ASTM SB/B381 F1/F2 - NORSOK MDS T24 Rev.1
Manufacturing summary doc. No.	MS TI 01 Rev.2
Products and manufacturing process(es):	Forged Discs - Shafts – Bars – Rings - Nozzles
Mandatory conditions and sub-contractors	HEAT TREATMENT IN HOUSE at TITALIA S.P.A. Forging Department: - Via S. Giovanni Battista 18/20 Plemo D'Esine (BS)
Other information	Qualified Titanium Grades F1/F2 bars, shafts, discs, rings and nozzles acc. to M650 Rev.4 – M-630:2020 - qualified with 3.2 certified production testing as accepted by Equinor GL-0081 Verification of Heat Treatment procedure carried out, ref procedure QP03-04 and Report 022/2021
Qualification expires:	November 2026

Test and Qualified Thickness and Weight

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



Documentation

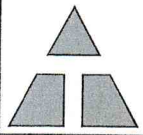
Manufactory summary: MS TI 01 Rev. 2
 Quality Control Plan: QCP TI 01REV 2
 Test sampling for Qualification: MS TI 01/A-B-C-D Rev. 2
 Test sampling for Production: MS TI 01/A-B-C-D-E Rev. 2
 Mill Certificate: ZTMC 0045/2-19 - H.0292-19 / WTT 0008853 – H.502-019059
 Heat Treat. chart by Titalia: Report Nr. 10/2021 Date: 15/06/2021
 Quality Assurance System: ISO 9001:2015- Directive 2104/68UE Ped 0029827
 Cert. Nr. LRC/10178023/QMS/U/EN ISSUED 11/03/2019

Qualification/acceptance signature

Manufacturer: TITALIA S.p.A.	Prepared by /Date: P. Loffredi – A. Ferrara	Checked by/ Date: A. Ferrara
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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:  AkerSolutions Fornebu, Norway NO 929 877 950 VAT	Signature/Date:  12/11/2021
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Titalia S.p.A.

QTR

QUALIFICATION TEST RECORD

NORSOK M-650 Rev.4

QTR 05Ti

Rev. No. 4

Manufacturer Name/address/web pages	TITALIA S.p.A Via Don Luigi Talamoni 83, 20861 Brugherio MB www.titalia.it
Reference standard	NORSOK M-650 REV. 4
Material designation and MDS no.	ASME/ASTM SB/B381 F5
Manufacturing summary doc. No.	MS TI 05 Rev.2
Products and manufacturing process(es):	Forged Discs - Shafts - Bars - Rings - Nozzles
Mandatory conditions and sub-contractors	HEAT TREATMENT IN HOUSE at TITALIA S.P.A. Forging Department: - Via S. Giovanni Battista 18/20 Plemo D'Esine (BS)
Other information	Qualified Titanium Grades F5 discs, rings, shafts and bars according to M650 Rev.4 - M-630:2020 following MDS T24 - qualified with 3.2 certified production testing as accepted by Equinor GL-0081 Verification of Heat Treatment procedure carried out, ref procedure HTP 01 Rev2 and Report 022/2021
Qualification expires:	November 2026

Test and Qualified Thickness and Weight

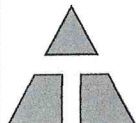
Products and manufacturing process	Test record Number	Tested Thickness (mm)	Test piece Weight (kg)	Qualified Thickness (mm)	Qualified Weight (Kg)
Forged Disc	2021060637	260 mm	270 kg	325 mm Max	All
Forged Ring/Nozzle	2021060639	180 mm	200 Kg	225 mm Max	All
Rolled Ring/Nozzle	2021060640	180 mm	200 Kg	225 mm Max	All
Forged Bar/Shaft	2021060638	Ø 320 mm	350 kg	Ø 400 mm Max	All

Documentation

Manufactory summary: MS TI 05 Rev. 2
 Quality Control Plan: QCP TI 01REV 2
 Test sampling for Qualification: MS TI 05A-B-C-D Rev. 2
 Test sampling for Production: MS TI 05/A-B-C-D-E Rev. 2
 Mill Certificate: VSMPO 04991Y18 - H.8-03-07062 / WTT 0009389 - H.534-620219
 Heat Treat. chart by Titalia: Report Nr. 11/2021- Date: 17/06/2021
 Quality Assurance System: ISO 9001:2015- Directive 2104/68UE Ped 0029827
 Cert. Nr. LRC/10178023/QMS/U/EN ISSUED 11/03/2019

Qualification/acceptance signature

Manufacturer: TITALIA S.p.A.	Prepared by /Date: P. Loffredi - A. Ferrara	Checked by/ Date: 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. 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:	AkerSolutions Fomebu, Norway NO 929 877 950 VAT	Signature/Date: 12/11/2021

 Titalia S.p.A.	QTR QUALIFICATION TEST RECORD NORSOK M-650 Rev.4	QTR 07Ti
		Rev. No. 4

Manufacturer Name/address/web pages	TITALIA S.p.A Via Don Luigi Talamoni 83, 20861 Brugherio MB www.titalia.it
Reference standard	NORSOK M-650 REV. 4
Material designation and MDS no.	ASME/ASTM SB/B381 F2 - NORSOK MDS T24 Rev.1
Manufacturing summary doc. No.	MS TI 07 Rev.2
Products and manufacturing process(es):	Open Die Forged Flanges – Roll Mill Forged Flanges
Mandatory conditions and sub-contractors	HEAT TREATMENT IN HOUSE at TITALIA S.P.A. Forging Department: - Via S. Giovanni Battista 18/20 Plemo D'Esine (BS)
Other information	Qualified Titanium Grade F1/F2 flanges acc. to M650 Rev.4 – M-630:2020 - qualified with 3.2 certified production testing as accepted by Equinor GL-0081 Verification of Heat Treatment procedure carried out, ref procedure QP03-04 and Report 022/2021
Qualification expires:	<i>November 2026</i>

Test and Qualified Thickness and Weight

Products and manufacturing process	Test record	Tested Thickness (mm)	Test piece Weight (kg)	Qualified Thickness (mm)	Qualified Weight (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


Documentation

Manufactory summary: MS TI 07 Rev. 2
 Quality Control Plan: QCP TI 07REV 2
 Test sampling for Qualification: MS TI 07/A-B-C-D Rev. 2
 Test sampling for Production: MS TI 07/A-B-C-D-E Rev. 2
 Mill Certificate: ZTMC 0045/2-19 - H.0292-19 / WTT 0008853 – H.502-019059
 Heat Treat. chart by Titalia: Report Nr. 11/2021 Date: 27/06/2021
 Quality Assurance System: ISO 9001:2015- Directive 2104/68UE Ped 0029827
 Cert. Nr. LRC/10178023/QMS/U/EN ISSUED 11/03/2019

Qualification/acceptance signature

Manufacturer: TITALIA S.p.A.	Prepared by /Date: P. Loffredi – A. Ferrara <i>[Signature]</i>	Checked by/ Date: A. Ferrara <i>[Signature]</i>
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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:  AkerSolutions Fornebu, Norway NO 929 877 950 VAT	Signature/Date: <i>[Signature]</i> <i>12/11/2021</i>
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