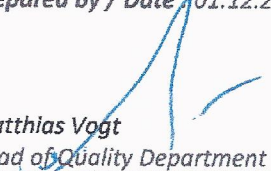
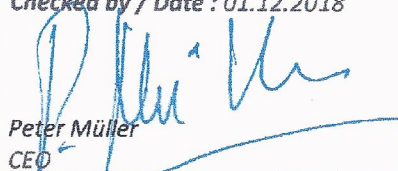
	QUALIFICATION TEST RECORD NORSOK M-650 EDITION 4		QTR No.: QTR 006
			Revision No.: 06
Manufacturer Name / Address / Web Page:	Hammerschmiede Jäckel Müller GmbH Ripshorster Straße 460, D-45357, Essen, Germany www.hjm.gmbh		
Reference Standard:	NORSOK M-650 Edition 4		
Material Designation and MDS No.:	ASTM B381 F2 (UNS R50400) - NORSOK M-630 MDS T01 Rev. 5		
Manufacturing Summary Doc. No.:	QTR006-MS	Rev. No.: 01	
Products and Manufacturing Process(es):	Die Forged Flanges < 80kg Die Forged Flanges ≥ 80kg Forged Rings		
Mandatory Conditions and Sub-Contractors:	Heat Treatment carried out in-house (Furnace no. 5) Laboratory Material Testing carried out by 3 rd Party ISO 17025 Accredited Supplier		
Other Information:	Pickling & Passivation carried out by 3 rd Party Approved Supplier Forging Process for Large Items (≥ 80kg) : Ossenberg & Cie GmbH, Altena (Optional)		
Qualification Expiry Date:	29/09/2022		

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)
Die Forged Flanges (< 80kg)	QTR006-QUALTS01	95	119	66	132
Die Forged Flanges (≥ 80kg)	QTR006-QUALTS02	90	113	99	198
Die Forged Flanges (≥ 80kg) - Ossenberg	QTR006-QUALTS03	170	213	232	All
Forged Rings	QTR006-QUALTS04	200	250	210	All

Qualification / Acceptance Signatures

Manufacturer: Hammerschmiede Jäckel Müller GmbH Essen, Germany	Prepared by / Date: 01.12.2018  Matthias Vogt Head of Quality Department	Checked by / Date: 01.12.2018  Peter Müller CEO
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Remarks / Special Remarks:

- 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):  APPROVED  TORFINN HAVN <small>partner in material technology and innovation</small>	Signature / Date:  Torfinn Havn 21.12.2018
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