


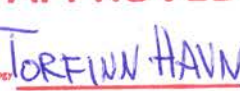

	QUALIFICATION TEST RECORD NORSOK M-650 EDITION 4 Manufacturing Procedure Conformity Record ISO 17782-2018			QTR No.: QTR 001 MPCR No.: 001	
				Revision No.: 11	
Manufacturer Name / Address / Web Page:	Hammerschmiede Jäckel Essen GmbH Ripshorster Straße 460, D-45357, Essen, Germany www.hje.gmbh				
Reference Standard:	NORSOK M-650 Edition 4				
Material Designation and MDS No.:	ASTM A182 F44 (UNS S31254) - NORSOK M-630 MDS R14 Rev. 6				
Manufacturing Summary Doc. No.:	QTR001-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:	29/09/2027				
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)
Die Forged Flanges (< 80kg)	QTR001-QUALTS01	62	62	45	90
Die Forged Flanges (≥ 80kg)	QTR001-QUALTS02	80	80	103	206
Die Forged Flanges (≥ 80kg) - Ossenberg)	QTR001-QUALTS03	170	170	412	All
Forged Rings	QTR001-QUALTS04	200	200	363	All
Qualification / Acceptance Signatures					
Manufacturer: Hammerschmiede Jäckel Essen GmbH Essen, Germany	Prepared by / Date : 01.09.2022  Matthias Vogt Head of Quality Department		Checked by / Date : 01.09.2022  Andrea Jäckel CEO		
Remarks / Special Remarks: 1. The manufacturer and this QTR/MPCR are evaluated and found to be in conformity with the requirements of NORSOK M-650/ISO 17782 for supply of the above listed products and materials. 2. 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/ISO 17782.					
Qualified / Accepted by (Company Name / Address):  APPROVED  Torfinn Hann			Signature / Date :  Torfinn Hann 29.09.2022		