

	Qualification Test Record (QTR) NORSOK M-650				QTR. No.: 002/M630r5D54/F53
					Rev. No.:3
Manufacturer name/address/ Web page:	Wilhelm Maass GmbH, Zeche Ernestine 18, DE – 45141 Essen, Germany http://www.maassglobal.com				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	ASTM A182 Gr. F53; M630 Ed.6, MDS D54, Rev.5				
Manufacturing Summary doc. No.:	WM_MS_OP_02_Manufacturing Summary_F53			Rev. No.:5	
Products and manufacturing process(es):	Products: Welding Neck-, Blind-, Slip On-, Long Welding Neck-, Socket Welding-Flanges acc. ASME B16.5, Spectacle Blind-, Paddle and Spacer acc. ASME B16.48 and Drawing- Flanges up to 146mm thickness Process: Closed die forgings				
Mandatory conditions and sub-contractors:	ISO 17025 approved Test laboratory Gövert GmbH M-650 approved Raw Material Source				
Other information:	Furnace working zone limited to 1000mm x 1600mm x 1000mm [width x length x height]				
Qualification expires:	November 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
WN 8" 2500lbs	14706	146	146	>250	All
Qualification/acceptance signatures					
	Prepared by/Date:  Murat Cengiz / September 2017		Checked by/Date:  Joerg Delveaux / September 2017		
	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)			Signature/Date:		
 APPROVED Ztrong <small>partner in material technology and innovation</small> JOERGEN HANN			 31.01.2018		