
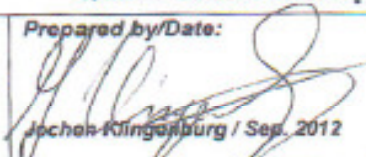


		Qualification Test Record (QTR) NORSOK M-650		QTR. No.:	
				001/M630r5D54/F55	
				Rev. No.:2	
Manufacturer name/address/ Web page:		Wilhelm Maass GmbH, Zeche Ernestino 18, DE - 45141 Essen, Germany http://www.maassglobal.com			
Reference standard		NORSOK M-650, Edition 4			
Material designation and MDS No.:		ASTM A182 Gr. F55; MDS D54, Revision 4.			
Manufacturing Summary doc. No.:		WM_MS_OP_04_Manufacturing Summary_F55	Rev. No.:4		
Products and manufacturing process(es):		Products: All type of flanges up to 16" or 150 kg in finished weight Process: Closed die forgings			
Mandatory conditions and sub-contractors:		Test laboratory			
Other information:		Furnace working zone limited to 300mm height			
Qualification expires:		September 2017			
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 71/16 5K	9877	106	110	114	248
Bl.Fl. 3" 2500lbs	9877 BL	82	82	52	52
Qualification/acceptance signatures					
		Prepared by/Date:  Jochen Klingenberg / Sep. 2012		Checked by/Date:  Jörg Delveaux / Sep. 2012	
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): <div style="text-align: center;">.VECTOR</div>			Signature/Date: Ola Farstad  1/10 2012		