
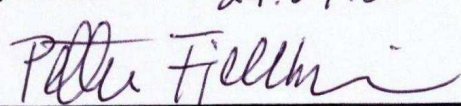
 König + Co. GmbH	QTR Qualification Test Record NORSOK M-650				QTR. No.: K010654QTR
					Rev. No.: 3
Manufacturer name/address/ Web page:	König + Co. GmbH, Obere Industriestraße 24 – 26, D-57250 Netphen www.koenig-co.de				
Reference standard	NORSOK M-650, Edition 4, September 2011				
Material designation and MDS No.:	ASTM A240 N08926 / ASTM A403 N08926, NORSOK M-630 Ed. 6, MDS R13, Rev. 5				
Manufacturing summary doc. No.:	Kö-9MS Rev. 2				
Products and manufacturing process(es):	Heads made of plates, material: ASTM A240 N08926 with and without welding seams. Forming Process: Cold forming				
Mandatory conditions and sub-contractors:	Heat treatment after forming is necessary and will be carried out by own furnace no.788 at plant Netphen. Manufacturer for starting material is Outokumpu and Industeel or other NORSOK M-650 qualified manufacturer Subcontractors: Zentrallabor Siegerland Braun & CO. and Ingenieurbüro Odenthal GbR				
Other information:	- Pickling will be done by own facilities. - Temperature uniformity survey done in 2018 - Verification of heat treatment procedure done in 2015 for furnace no. 788 - The maximum weight qualified for furnace No.788 is 30000kg - Tensile and Charpy impact tests might also be performed by König & Co. - The following testing will be carried out by sub-contracting: <ul style="list-style-type: none"> • Hardness test, micrographic examination and corrosion testing: Zentrallabor Siegerland Braun & CO. (Accreditation no.: D-PL-18993-01-00 and ISO / IEC 17025) • Micrographic examination: Ingenieurbüro Odenthal GbR (Accreditation no.: D-PL-18955-01-00 and ISO / IEC 17025) Requalification without mechanical testing is accepted based on review of: Reference List, Statistic of mechanical properties for last 5 years and conclusion that no changes to Manufacturing Summary has taken place.				
Qualification expires	31.07.2024				
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)
Cold formed heads	10654	21,5 mm	27,0 mm	3555 kg	N.A.
Qualification/Acceptance signatures					
Manufacturer:	Prepared by/Date: Haas / 23.07.2019	Checked by/Date: Haas / 23.07.2019			
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: 27.07.2019		
					
Materials Consult AS Petter Fjellheim N-7058 Jakobsli, Trondheim +47 97189397					