kö	QTR Qualification Test Record NORSOK M-650			i l	QTR. No.: Kö16480QTR
König + Co. GmbH					Rev. No.:2
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 UNS S 31803 / ASTM A815 UNS S 31803 ASTM A240 UNS S 32205 / ASTM A815 UNS S32205 NORSOK M-630 Ed. 6, MDS D43, Rev. 5				
Manufacturing summary doc. No.:	Kö-8MS				Rev. No.:2
Products and manufacturing process(es):	Heads made of plates, material: ASTM A240 UNS S 31803 and UNS S 32205 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: 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) 				
Qualification expires:	12.2023				
	Tested and	Qualified T	hickness and	Weight	
Products and manufacturing process(es):	Test record No.	Tested thickness (mm)	Qualified thickness (mm)	Test piece weight (kg)	e Qualified weight (kg)
Cold formed heads	13/16480	30 mm	37,5 mm	4750 kg	N.A.
	Qualifica	tion/Adam	tance signat	uras	•
				Vä	nig + Co. Gmi
Manufacturer:	Prepared by / Date: Haas / 17.12.2018		Haas / 17.12.2018 Obere Industriastraße 24 -		
The manufacture N This acceptance does	ORSOK M-650 for not exempt any pu	supply of the ab urchaser from his	I variables of NORS	and materials nsure that this SOK M-650.	qualification is valid
N-7058		ne/address):	Signature/Date:	08.01.2	019 Oli