

 König + Co. GmbH	QTR Qualification Test Record NORSOK M-650				QTR. No.: Kö12560QTR
					Rev. No.: 4
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 S32750/ASTM A815 S32750, NORSOK M-630:2020, <i>Rev. 7</i> MDS D53, Rev. 6				
Manufacturing summary doc. No.:	Kö-9MS	Rev. No.: 3			
Products and manufacturing process(es):	Heads made of plates, material: ASTM A240 S32750 without welding seams. Forming Process: Hot forming				
Mandatory conditions and sub-contractors:	Heat treatment after forming is necessary and will be carried out by own furnaces: Furnace No. 348 or 788 Manufacturer for starting material is Outokumpu, Industeel or other NORSOK qualified supplier Subcontractors: <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) 				
Other information:	- Pickling will be done by own facilities - Heat treatment furnace Uniformity Survey for furnaces 348 and 788 done in 2023 - Verification of heat treatment procedure done in 2012 for furnace 348 - Verification of heat treatment procedure done in 2015 for furnace no. 788 - The Heat Treatment Procedure for furnace 348 is PRO-5 and for furnace 788 is PRO-10 - Tensile and Charpy impact tests might also be performed by König & Co.				
Qualification expires:	11/2028				
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)
Hot formed heads	12560	50 mm	50 mm	485 kg	N.A.
Qualification/Acceptance signatures					
Manufacturer:	Prepared by / Date: Haas / 28.11.2023	Checked by / Date: Haas / 28.11.2023			
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): Metallic Materials Consult Petter Fjellheim, Metallurgist Phone +47 97189397			Signature/Date: <i>20.12.2023</i> <i>Petter Fjellheim</i> Msc. Metallic Materials pet-fjel@online.no		