

ANTONIUS	QTR Qualification Test Record NORSOK M-650				QTR. No.: 002	
					Rev. No.: 6	
Manufacturer name/address/ Web page:	Antonius Vesselheads BV S. Houbenweg 1, 6051AL Maasbracht, Netherlands www.antonius.nl					
Reference standard	NORSOK M-650 Ed.4, September 2011					
Material designation and MDS No.:	6Mo SS (UNS N08926) according MDS R13 Rev.5 for A1-1 / A1-2 6Mo SS (UNS S31254) according MDS R13 Rev.5 for B1-2					
Manufacturing Summary doc. No.:	2.0 Manufacturing Summary 6Mo SS MS-002-6MoSS rev.2					
Products and manufacturing process(es):	Dished heads and components manufactured by: A1-1: Dishing & Spinning with weld seam before forming. A1-2: Dishing & Spinning seamless. B1-2: Hot pressing seamless					
Mandatory conditions and sub-contractors:	Suppliers of starting material shall be qualified according to M650 Ed.4 Heat treatment (furnaces GL001 and GL004), blasting and pickling by own facilities. Furnace (GL001 and GL004) verification done and approved by Aker Solutions on May 3 rd 2013. External laboratory: GWQ-Moers (D) certified acc. ISO/IEC 17025 Non destructive testing: <ul style="list-style-type: none"> • 100% PT of knuckle area in and outside • 100% PT of weld seam(s) in and outside • 100% RT of weld seam(s) Procedure and acceptance criteria according the purchase order					
Other information:	QTR rev.No.6: added manufacturing process B1-2 Hot pressing seamless.					
Qualification expires:	April 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)	
A1-1 / A1-2	71049010	23	28,7	3944	N.App.	
B1-2	1900206001	20	24	121	N.App	
Qualification/Acceptance signatures						
Manufacturer: ANTONIUS	Prepared by / Date: J.P.T. Camp Senior Quality Engineer 		Checked by / Date: Maurice Salder Welding Engineer / QAM 			
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):  AkerSolutions Fornebu, Norway NO 929 877 950 VAT			Signature/Date: 25/4/13 			