
 Henry Williams	QTR Qualification Test Record NORSOK M-650				QTR No: HW-QTR-D44-01
					Rev No: 1
Manufacturer Name/Address/ Web Page:	Henry Williams Ltd Dodsworth Street Darlington County Durham DL1 2NJ www.hwilliams.co.uk				
Reference Standard	NORSOK M650 Rev 4 – Qualification of Manufacturers of Special Materials				
Material designation and MDS No:	NORSOK M630 Rev 6 – MDS-D44 Rev 5 – ASTM A182 F51 – UNS S31803				
Manufacturing Summary Doc. No.	MS01				Rev. No. 2
Products and manufacturing process(es)	Upset & Closed Die Forgings Upset & Closed Die Hammer Forging				
Mandatory conditions and sub-contractors	Con Mech Heat Treatment (Henry Williams Group) Procedure No. 464 Rev 6 Temperature Range: 1080°C +10C/- 10C Material Suppliers : Outo Kumpu (Degerfors);Valbruna;Aceralava, Sandvik, Cogne Final machining and marking performed externally by agreement. Therefore, pickling is not within the scope of this QTR				
Other Information	For the purposes of this QTR the Heat Treatment Maximum Load Qualified Weight is: 2.1 Tonne				
Qualification Expires	March 2021				
Tested and Qualified Thickness and Weight					
Products and manufacturing process(es)	Test Record No:	Test thickness (mm)	Qualified Thickness (mm)	Test Piece Weight (Kg)	Qualified Weight (Kg)
Closed Die Forging: TYPE Q FF VALVE BODY FORGING		98	108	61.6	123.2
Upset Forging: TYPE Q FS VALVE BODY FORGING		100	110	36.8	73.6
Qualification / Acceptance signatures					
Manufacturer:	Prepared by /Date: 4 th May 2017 Mike Wilson, Oil, Gas & Energy Business Manager <i>M. Wilson</i> Henry Williams Ltd <i>18.5.17</i>		Checked by / Date: 4 th May 2017 Mark Rigg, Quality Manager Henry Williams Ltd <i>Mark Rigg</i> <i>18/05/17.</i>		
The manufacturer and this QTR are evaluated and found to be in compliance with the requirements of NORSOK M-650 for the 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		
			 CLARA MOYANO PARKER HANMIFIN 18 MAY.17		