




QTR
Qualification Test Record
NORSOK M-650

QTR. No.:
GG-N-QTR-2100
Rev. No.: A

Manufacturer Name/address/ Web page:	Gustav Grimm Edelstahlwerk GmbH & Co. KG Ronsdorfer Str. 172-174 D - 42855 Remscheid		www.gustav-grimm.de		
Reference standard	NORSOK M-650 Edition 4 - September 2011				
Material designation and MDS No.:	ASTM A 479, UNS S32760, MDS D57 Rev. 5				
Manufacturing summary doc. No.:	GG-N-MS-2110 - Forged bars - 1.4501 (Type 25Cr Duplex)			Rev. No.: B	
Products and manufacturing process(es):	Forged bars suitable for machining of components without welding ends Production route: Forging by press				
Mandatory conditions and sub-contractors:	Heat treatment furnace No. 6 Heat treatment according to GG-N-DHTF-0000 and GG-N-HTI-2000 Rev. No.: B Start material: Silbitz Guss GmbH Metallographic examination and corrosion testing: Germanischer Lloyd Prüflabor GmbH, Herne				
Verification of heat treatment procedure	GG-N-HTV-0002-TR01 Rev. No.: B Date: 15. June 2015 Temperature: 1120°C				
Other information:	<u>Delivery conditions:</u> <ul style="list-style-type: none">➤ semi-finished products pre-machined➤ no-finished surfaces➤ no white pickled performed				
Qualification expires:	March 2021				
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)
Forged bars (round and square)	GG-N-QTR-2100	200 mm	200 mm	app. 750 kg	all
Qualification/Acceptance signatures					
Manufacturer:	Prepared by/Date: Karsten Voigt 09.03.2016 <i>Karsten Voigt</i>	Checked by/Date: Roland Winter 09.03.2016 <i>Roland Winter</i>			
<i>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.</i>					
Qualified/Accepted by (company name/address):  Aker Solutions Aker Engineering & Technology AS Reg.nr. 579 817 552		Signature/Date: 09/03/2016 <i>Erling Ryge</i>			