

QTR Qualification Test Record NORSOK M-650

QTR. No.:

GG-N-QTR-1100

Rev. No.: A

Gustav Grimm Edelstahlwerk GmbH & Co. KG Manufacturer Ronsdorfer Str. 172-174 Name/address/ www.gustav-grimm.de D - 42855 Remscheid Web page: Reference standard NORSOK M-650 Edition 4 - September 2011 ASTM A 479, UNS S31803, MDS D47 Rev. 5 Material designation ASTM A 479, UNS S32205, MDS D47 Rev. 5 and MDS No.: Manufacturing Rev. No.: B GG-N-MS-1110 - Forged bars - 1.4462 (Type 22Cr Duplex) summary doc. No.: Products and Forged bars suitable for machining of components without welding ends manufacturing Production route: Forging by press process(es): Heat treatment furnace No. 6 Mandatory Heat treatment according to GG-N-DHTF-0000 and GG-N-HTI-1000 Rev. No.: B conditions and sub-contractors: Metallographic examination and corrosion testing: Start material: Silbitz Guss GmbH Germanischer Lloyd Prüflabor GmbH, Herne GG-N-HTV-0002-TR01 Rev. No.: B Verification of heat Date: 15. June 2015 Temperature: 1120°C treatment procedure Other information: Delivery conditions: semi-finished products pre-machined no-finished surfaces March 2021 Qualification expires: Tested and Qualified Thickness and Weight Test piece Qualified Products and Test record No. Tested Qualified weight weight thickness thickness manufacturing process(es): (mm) (mm) (kg)(kg)Forged bars 350 mm GG-N-QTR-1100 350 mm app. 1500 kg all (round and square) Qualification/Acceptance signatures Prepared by/Date: Checked by/Date: Manufacturer: Karsten Voigt 09.03.2016 Roland Winter 09.03.2016

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 Scompann same/address):

Aker Engineering & Technology AS Reg.nr. 879 817 552 Signature/Date:

Erling Ryenge