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|  | Qualification Test Record (QTR) | | | | QTR. No.:2 | |
| | NORSOK M-650 | | | | Rev. No.:3 | |
| Manufacturer name/address/ Web page: | GAINZA FORGE, S.L. Barrio Agote nº7 20740 ZESTOA (Gipuzkoa) Spain Tel.+34-943-147871 Fax.+34-943-147790 www.gainzaforge.com , e-mail: gainza@gainzaforge.com | | | | | |
| Reference standard | NORSOK M-650, Edition 4 | | | | | |
| Material designation and MDS No.: | Ferritic/Austenitic Stainless Steel Forgings Type 22Cr Duplex ASTM A182 Gr. F51 UNS S31803 All test requirements shall comply with NORSOK M-630:2020 MDS D44 Rev.6 and DH44 Rev.1 | | | | | |
| Manufacturing Summary doc. No.: | MS-F51-01 | | | | Rev. No.:9 | |
| Products and manufacturing process(es): | Forging by open die: -Disks (Blind Flanges), Hubs, Weld neck flanges and Canister spool | | | | | |
| Mandatory conditions and sub-contractors: | <ul style="list-style-type: none"> • Micrographic examination and corrosion test by: Azterlan (external laboratory) • Forgings shall be machined as close as possible to final shape prior to quality heat treatment. | | | | | |
| Other information: | Verification of heat treatment procedure report No.1/2021 performed on 22 nd of October 2021 and No.1/2022 performed on 19 th of February 2022 The qualification test of WN flange, test record N°2012-2979-02.5, is made without a prolongation at weld end and corrosion test to ASTM G48. The qualification test of canister spool is made at a prolongation, ref. test record N°22-0517 Item-4. | | | | | |
| Qualification expires: | February 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 | |
| Weld neck and blind flange | 2012-2979-02.5 | 200 | 200 | 1870 | All | |
| Weld neck and blind flange | 2022/0517 Item-4 | 93 | 102 | 190 | 380 | |
| Canister spool | 2022/0517 Item-1 | 195 | 195 | 1670 | All | |
| Qualification/acceptance signatures | | | | | | |
| Manufacturer: | Prepared by/Date: | | Checked by/Date: | | | |
| |  Igor Albizu 8 st of February 2023 | |  Pedro Bravo 8 st of February 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. <i>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): | | | Signature/Date: | | | |
| | | | 8 st of February 2023 | | | |
| <small>Member of NORSOK M-650 committee</small> | | | | | | |