

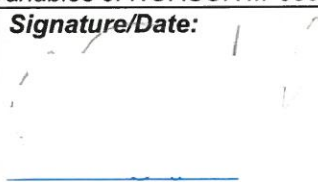
	Qualification Test Record (QTR) NORSOK M-650				QTR. No.:3
					Rev. No.:3
Manufacturer name/address/ Web page:	GAINZA FORGE, S.L. Barrio Agote nº7 20740 ZESTOA (Gipuzkoa) Spain Tel.+34-943-147871 Fax.+34-943-147790 www.gainzaforge.com , e-mail: gainza@gainzaforge.com				
Reference standard	NORSOK M-650, 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-F51-02				Rev. No.:9
Products and manufacturing process(es):	Forging by open die followed by ring rolling: -Rings -Hubs (machined to shape) -Weld neck flanges (machined to shape)				
Mandatory conditions and sub-contractors:	<ul style="list-style-type: none"> Product analysis, 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 Corrosion testing to ASTM G48 Method A is not carried out.				
Qualification expires:	January 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
Rolled rings	2012-2979-02.6	200	200	1110	All
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date:  Igor Albizu 30 th of January 2023		Checked by/Date:  Pedro Bravo 30 th of January 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:  30 th of January 2023 Member of NORSOK M-650 committee		