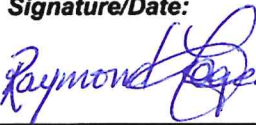


	Qualification Test Record (QTR) NORSOK M-650		QTR. No.: 31803 & 32205 Duplex M-650.4		
			Rev. No.: 0		
Manufacturer name/address/ Web page:	BGH Edelstahl Siegen GmbH Industriestraße 9, D-57076 Siegen, Germany www.bgh.de				
Reference standard	NORSOK M-650 Ed. 4				
Material designation and MDS No.:	ASTM A 276 & 479 / UNS S31803 & S32205 / NORSOK M-630:2022 MDS D47 Rev. 6				
Manufacturing Summary doc. No.:	1.4462 inductive		Rev. 2		
	1.4462 batch treatment		Rev. 1		
Products and manufacturing process(es):	Round and square bars: Ingot casting (IC), forging, austenitizing: inductive reheating, tempering, peeling, testing (inductive route) Ingot casting (IC), forging, austenitizing: batch furnaces, tempering, peeling, testing (batch route)				
Mandatory conditions and sub-contractors:	Ingots produced by BGH Siegen Verified furnaces: Inductive: Inductive reheating installation Batch treatment: Furnace No. 24, 25, 26, 27 Starting quenching water temperature to be max 35 °C				
Other information:	Heat treatment verification of inductive installation performed and witnessed by Sverdrup Steel AS the 3rd of July 2017. Transfer time of maximum 80 s is qualified. Heat treatment verification of batch furnaces is finalized June 2013.				
Qualification expires:	2027.12.31				
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 bar IC	8114879835 027 L1 / 949 M1	150 - 289	150 - 289	3739	All
Forged bar IC	8109481824 664 U1	346	346	5308	All
Qualification/Acceptance signatures					
Manufacturer:	Prepared by/Date: M. Müller 21.02.2023	Checked by/Date: D. Hoogstraten 21.02.2023			
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. 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):  Strandsvingen 2 4032, Stavanger			Signature/Date:  21.02.23.		