

	<b>Qualification Test Record (QTR) NORSOK M-650</b>		QTR. No.: <b>F51 Ring</b>
			Rev. No.: <b>07</b>
<b>Manufacturer name/address/ Web page:</b>	<b>Brück GmbH, Brückstraße 16, 66131 Ensheim - Germany</b> www.bruck-forgings.com		
<b>Reference standard</b>	<b>NORSOK M-650, Edition 4</b>		
<b>Material designation and MDS No.:</b>	ASTM A182 Gr. <b>F51</b> ; NORSOK M-630:2020, <b>MDS D44</b> Revision 6. ASTM A182 Gr. <b>F60</b> ; NORSOK M-630:2020, <b>MDS D44</b> Revision 6.		
<b>Manufacturing Summary doc. No.:</b>	MS-F51-Ring	Rev. No.: <b>07</b>	
<b>Products and manufacturing process(es):</b>	Ring rolled rings		
<b>Mandatory conditions and sub-contractors:</b>	Heat treatment furnaces No. 5 and 6 Quenching basin No. 4  GSI SLV Saarbrücken		
<b>Other information:</b>	This QTR is a renewal of NORSOK Qualification based on QTR F51 Ring Rev. 03 from 2019.		
<b>Qualification expires:</b>	December 2028		


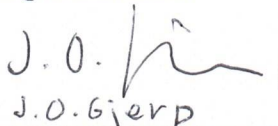
**Tested and qualified thickness and weight**

Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
Ring rolled rings	E81445-1	237	237	3541	All

**Qualification/acceptance signatures**

<b>Manufacturer:</b>	<b>Prepared by/Date:</b>  Fabian Bonner 2023.12.01 07:45:35 +01'00'	<b>Checked by/Date:</b>  Digital signiert von J. Augustin DN: cn=J. Augustin, o=DE, o=Brück GmbH, ou=QS / QA, email=joachim.augustin@bruck-forgings.com Datum: 2023.12.01 07:54:48 +01'00'
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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.

<b>Qualified/Accepted by (company name /address):</b>   <b>AkerSolutions</b> Fornebu, Norway NO 929 877 950 VAT	<b>Signature/Date:</b>  / 01.12.03 J.O. Gjerp
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