

	Qualification Test Record (QTR) NORSOK M-650		QTR. No.: F51 Hollow Forging
			Rev. No.: 06
Manufacturer name/address/ Web page:	Brück GmbH, Brückstraße 16, 66131 Ensheim - Germany www.bruck-forgings.com		
Reference standard	NORSOK M-650, Edition 4		
Material designation and MDS No.:	ASTM A182 Gr. F51 ; NORSOK M-630:2020, MDS D44 Revision 6. ASTM A182 Gr. F60 ; NORSOK M-630:2020, MDS D44 Revision 6.		
Manufacturing Summary doc. No.:	MS-F51-Hollow Forging	Rev. No.: 06	
Products and manufacturing process(es):	Hollow Forging, produced by backward extrusion, without subsequent ring rolling in excess of 50 mm change in inner diameter		
Mandatory conditions and sub-contractors:	Heat treatment furnaces No. 5 and 6 Quenching basin No. 4 GSI SLV Saarbrücken		
Other information:	This QTR is a renewal of NORSOK Qualification based on QTR F51 Hollow Forging Rev. 02 from 2019.		
Qualification expires:	December 2028		


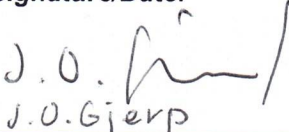
Tested and qualified thickness and weight

Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
Hollow Forgings	E 3387	195	195	1163	All

Qualification/acceptance signatures

Manufacturer:	Prepared by/Date:  Fabian Bonner 2023.12.01 07:43:29 +01'00'	Checked by/Date:  Digital signiert von J. Augustin DN: cn=J. Augustin, o=DE, ou=Brück GmbH, ou=QS / QA, email=joachim.augustin@bruck-forgings.com Datum: 2023.12.01 07:54:27 +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.

Qualified/Accepted by (company name /address):  AkerSolutions Fornebu, Norway NO 929 877 950 VAT	Signature/Date:  J.O. Gjerp / 01.12.23
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