
	<b>Qualification Test Record (QTR) NORSOK M-650</b>				QTR. No.: F51-Disc	
					Rev. No.:01	
<b>Manufacturer name/address/ Web page:</b>	Brück GmbH, Brückstr. 16, 66131 Ensheim - Germany www.bruck-forgings.com					
<b>Reference standard</b>	NORSOK M-650, Edition 4					
<b>Material designation and MDS No.:</b>	ASTM A182 Gr. F51; MDS D44, Revision 4.					
<b>Manufacturing Summary doc. No.:</b>	MS-F51-Disc				Rev. No.:02	
<b>Products and manufacturing process(es):</b>	Forged Discs, produced by open die forging					
<b>Mandatory conditions and sub-contractors:</b>	Heat treatment furnaces No. 5 and 6 Quench basin No. 4					
<b>Other information:</b>	Ring Rolling process is used as last step of forming to get square-edged contour; Present qualification is based on VA-QS-5130 Rev.01 i.e. Murakami etchant (No. 98, ASTM E 407). For all future orders VA-QS-5130 Rev. 02 i.e. 20% NaON (No.220) will be used, unless otherwise agreed with the customer.					
<b>Qualification expires:</b>	<b>14.12.2017</b>					
<b>Tested and qualified thickness and weight</b>						
<b>Products and manufacturing process(es):</b>	<b>Test record No.</b>	<b>Tested thickness mm</b>	<b>Qualified thickness mm</b>	<b>Test piece weight kg</b>	<b>Qualified weight kg</b>	
Forged Discs	E2788	185	185	1070	All	
<b>Qualification/acceptance signatures</b>						
<b>Manufacturer:</b>	<b>Prepared by/Date:</b> D. Mohr 12.12.2012		<b>Checked by/Date:</b> D. Bruch 12/12/2012			
<p>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.</p>						
<b>Qualified by (company name /address):</b>	 Aker Engineering & Technology AS Reg.nr 879 817 552		<b>Signature/Date:</b> E. R. Rye 14/12/2012			