
	<b>Qualification Test Record (QTR)</b> <b>NORSOK M-650</b>		QTR. No.: RM-QTR- 01
			Rev. No.:01
<b>Manufacturer name/address/ Web page:</b>	<b>Manufacturer Name:</b> Roc-Master Piping Solutions Ltd. <b>Address:</b> Southeastern crossroad of road A105 and KeJiao Road, Hedong Industrial Park, Qingyuan District, Jian, Jiangxi, P. R. China <b>Web Page:</b> www.roc-master.com		
<b>Reference standard</b>	NORSOK Standard M-650 Edition 4, September 2011		
<b>Material designation and MDS No.:</b>	ASTM A182 F51/F60 (S31803/S32205); MDS D44 Rev.5		
<b>Manufacturing Summary doc. No.:</b>	RM-MS-F51/F60-01	Rev. No.: C/0	
<b>Products and manufacturing process(es):</b>	<ul style="list-style-type: none"> <li>Open forged flange, Production route No.RM-MS-F51/F60-01, Rev. C/0</li> </ul>		
<b>Mandatory conditions and sub-contractors:</b>	<ul style="list-style-type: none"> <li>Initial forging temperature 1150°C~1170°C and final forging temperature minimum 1000°C</li> <li>Forging ratio Min.4 and cooling in water after forging</li> <li>Forgings shall be machined as close as possible to be final shape prior to quality heat treatment</li> <li>Quenching: in cold water with the temperature not exceed 40°C and transferring materials from heat treatment furnace into quenching bath with a maximum of 60 seconds</li> <li>External test laboratory: Zhangjiagang Haiyu Metallic Material Testing Co., Ltd. CNAS /ISO17025 accredited test lab, CNAS No. L4986</li> </ul>		
<b>Other information:</b>	<ul style="list-style-type: none"> <li>All tests shall be performed in an ISO/IEC/17025 accredited laboratory.</li> </ul>		
<b>Qualification expires:</b>	April 15,2024		


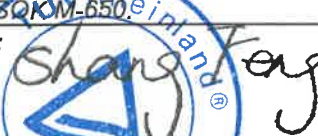
### Tested and qualified thickness and weight

<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>
Open die flange	2018-093-162W	105	115.5	196	392



### Qualification/acceptance signatures

<b>Manufacturer:</b> Roc-Master Piping Solutions Ltd.	<b>Prepared by/Date:</b> Zeven Jian      Zeven Jian April 16,2019	<b>Checked by/Date:</b> Kevin Rao      Kevin Rao April 16,2019
<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.</p> <p><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></p>		
<b>Qualified/Accepted by (company name /address):</b> TÜV Rheinland (China) Ltd. Unit 707, AVIC Building, No. 10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing 100022, P.R.China Tel.: 010-65666660		<b>Signature/Date:</b>  April 16,2019





	<b>Qualification Test Record (QTR) NORSOK M-650</b>				QTR. No.: RM-QTR- 02
					Rev. No.:01
<b>Manufacturer name/address/ Web page:</b>	<b>Manufacturer Name:</b> Roc-Master Piping Solutions Ltd. <b>Address:</b> Southeastern crossroad of road A105 and KeJiao Road, Hedong Industrial Park, Qingyuan District, Jian, Jiangxi, P. R. China <b>Web Page:</b> www.roc-master.com				
<b>Reference standard</b>	NORSOK Standard M-650 Edition 4, September 2011				
<b>Material designation and MDS No.:</b>	ASTM A182 F53 (S32750), MDS D54 Rev.5				
<b>Manufacturing Summary doc. No.:</b>	RM-MS-F53-01			Rev. No.: C/0	
<b>Products and manufacturing process(es):</b>	<ul style="list-style-type: none"> <li>Open forged flanges, Production route No.RM-MS-F53-01, Rev. C/0</li> </ul>				
<b>Mandatory conditions and sub-contractors:</b>	<ul style="list-style-type: none"> <li>Initial forging temperature 1150°C~1170°C and final forging temperature minimum 1000°C</li> <li>Forging ratio Min.4 and cooling in water after forging</li> <li>Forgings shall be machined as close as possible to be final shape prior to quality heat treatment,</li> <li>Quenching: in cold water with the temperature not exceed 40°C and transferring materials from heat treatment furnace into quenching bath with a maximum of 60 seconds</li> <li>External test laboratory: Zhangjiagang Haiyu Metallic Material Testing Co., Ltd. CNAS /ISO17025 accredited test lab, CNAS No. L4986</li> </ul>				
<b>Other information:</b>	<ul style="list-style-type: none"> <li>All tests shall be performed in an ISO/IEC/17025 accredited laboratory</li> </ul>				
<b>Qualification expires:</b>	April 15,2024				
<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>
Open die flange	2018-093-163W	97	97	191	382
<b>Qualification/acceptance signatures</b>					
<b>Manufacturer: Roc-Master Piping Solutions Ltd.</b>	<b>Prepared by/Date:</b> Zeven Jian Zeven Jian April 16,2019		<b>Checked by/Date:</b> Kevin Rao Kevin Rao April 16,2019		
<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.</p> <p><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></p>					
<b>Qualified/Accepted by (company name /address):</b> TÜV Rheinland (China) Ltd. Unit 707, AVIC Building, No. 10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing 100022, P.R.China Tel.: 010-65666660			<b>Signature/Date:</b>  April 16,2019		



	<b>Qualification Test Record (QTR) NORSOK M-650</b>			QTR. No.: RM-QTR- 03	
				Rev. No.:01	
<b>Manufacturer name/address/ Web page:</b>	<b>Manufacturer Name:</b> Roc-Master Piping Solutions Ltd. <b>Address:</b> Southeastern crossroad of road A105 and KeJiao Road, Hedong Industrial Park, Qingyuan District, Jian, Jiangxi, P. R. China <b>Web Page:</b> www.roc-master.com				
<b>Reference standard</b>	NORSOK Standard M-650 Edition 4, September 2011				
<b>Material designation and MDS No.:</b>	ASTM A182 F55(UNS S32760), MDS D54 Rev.5				
<b>Manufacturing Summary doc. No.:</b>	RM-MS-F55-01			Rev. No.: C/0	
<b>Products and manufacturing process(es):</b>	<ul style="list-style-type: none"> <li>Open forged flanges, Production route No.RM-MS-F55-01 Rev. C/0</li> </ul>				
<b>Mandatory conditions and sub-contractors:</b>	<ul style="list-style-type: none"> <li>Initial forging temperature 1150°C~1170°C and final forging temperature minimum 1000°C</li> <li>Forging ratio Min.4 and cooling in water after forging</li> <li>Forgings shall be machined as close as possible to be final shape prior to quality heat treatment</li> <li>Quenching: in cold water with the temperature not exceed 40°C and transferring materials from heat treatment furnace into quenching bath with a maximum of 60 seconds</li> <li>External test laboratory: Zhangjiagang Haiyu Metallic Material Testing Co., Ltd. CNAS /ISO17025 accredited test lab, CNAS No. L4986</li> </ul>				
<b>Other information:</b>	<ul style="list-style-type: none"> <li>All tests shall be performed in an ISO/IEC/17025 accredited laboratory.</li> </ul>				
<b>Qualification expires:</b>	April 15,2024				
<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>
Open die flange	2018-093-164W	99	99	184	368
<b>Qualification/acceptance signatures</b>					
<b>Manufacturer: Roc-Master Piping Solutions Ltd.</b>	<b>Prepared by/Date:</b> Zeven Jian    Zeven Jian April 16,2019		<b>Checked by/Date:</b> Kevin Rao    Kevin Rao April 16,2019		
<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.</p> <p><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></p>					
<b>Qualified/Accepted by (company name /address):</b> TÜV Rheinland (China) Ltd. Unit 707, AVIC Building, No. 10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing 100022, P.R.China Tel.: 010-65666660			<b>Signature/Date:</b>  April 16,2019		



	<b>Qualification Test Record (QTR)</b> <b>NORSOK M-650</b>				<b>QTR. No.:</b> RM-QTR- 04
					<b>Rev. No.:</b> 01
<b>Manufacturer name/address/ Web page:</b>	<b>Manufacturer Name:</b> Roc-Master Piping Solutions Ltd. <b>Address:</b> Southeastern crossroad of road A105 and KeJiao Road, Hedong Industrial Park, Qingyuan District, Jian, Jiangxi, P. R. China <b>Web Page:</b> www.roc-master.com				
<b>Reference standard</b>	NORSOK Standard M-650 Edition 4, September 2011				
<b>Material designation and MDS No.:</b>	ASTM B564 N06625; MDS N01 Revision 5				
<b>Manufacturing Summary doc. No.:</b>	RM-MS-N06625-01			<b>Rev. No.:</b> C/0	
<b>Products and manufacturing process(es):</b>	<ul style="list-style-type: none"> <li>Open forged flanges, Production route No.RM-MS-N06625-01 Rev.C/0</li> </ul>				
<b>Mandatory conditions and sub-contractors:</b>	<ul style="list-style-type: none"> <li>Initial forging temperature 1120°C~1150°C and final forging temperature minimum 1000°C</li> <li>Forging ratio Min.4 and cooling in water after forging</li> <li>Forgings shall be machined as close as possible to be final shape prior to quality heat treatment</li> <li>Quenching: in cold water with the temperature not exceed 40°C and transferring materials from heat treatment furnace into quenching bath with a maximum of 60 seconds</li> <li>External test laboratory: Zhangjiagang Haiyu Metallic Material Testing Co., Ltd. CNAS /ISO17025 accredited test lab, CNAS No. L4986</li> </ul>				
<b>Other information:</b>	<ul style="list-style-type: none"> <li>All tests shall be performed in an ISO/IEC/17025 accredited laboratory.</li> </ul>				
<b>Qualification expires:</b>	April 15,2024				
<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>
Open die flange	2018-093-165W	66	66	106	212
<b>Qualification/acceptance signatures</b>					
<b>Manufacturer:</b> Roc-Master Piping Solutions Ltd.	<b>Prepared by/Date:</b> Zeven Jian Zeven Jian April 16,2019		<b>Checked by/Date:</b> Kevin Rao Kevin Rao April 16,2019		
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>					
<b>Qualified/Accepted by (company name /address):</b> TÜV Rheinland (China) Ltd. Unit 707, AVIC Building, No. 10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing 100022, P.R.China Tel.: 010-65666660			<b>Signature/Date:</b>  April 16,2019		

