
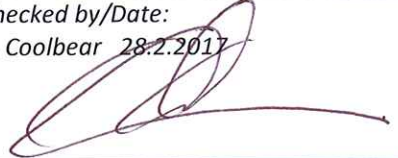

	<b>QUALIFICATION TEST RECORD (QTR)</b> <b>NORSOK M-650</b>				QTR. No.: <b>22Cr-17</b>	
					Rev. No.: <b>1</b>	
<b>Manufacturer name/address/ Web page:</b>	Brafe Engineering, Grundisburgh Road, Woodbridge, Suffolk, UK. IP13 6HX <a href="http://www.brafe.com">www.brafe.com</a>					
<b>Reference standard</b>	NORSOK M-650 Ed 4					
<b>Material designation and MDS No.:</b>	ASTM A995 4A (J92205), MDS-D46 Rev 5					
<b>Manufacturing summary doc. No.:</b>	ITP-17 (for Sand & Repliwax Castings)				Rev. No.: 1	
<b>Products and manufacturing process(es):</b>	Sand and Repliwax Castings					
<b>Mandatory conditions and sub-contractors:</b>	Maximum Section Thickness of 155mm (6") with no Maximum Casting Weight Limit. Heat-Treat in Oven 3 Only (Verified by Roxspur - August 2016). All Major Weld Repairs to be Post Weld Heat Treated (PWHT'd.)					
<b>Other information:</b>	Radiography: <ul style="list-style-type: none"> <li>• AeroTech NDT, Cradley Heath</li> <li>• Applied Inspection, Chesterfield</li> <li>• Insight NDT, Sheffield</li> </ul> Material Testing: <ul style="list-style-type: none"> <li>• Exova (Teesside), Middlesbrough</li> <li>• Element Materials Technology, Sheffield</li> </ul> Pickling: <ul style="list-style-type: none"> <li>• Metapic, Chesterfield</li> </ul>					
<b>Qualification expires:</b>	September 2022					
<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>	
Static Castings	22Cr-17 S	155	155	260	All	
Repliwax	22Cr-17 R	40	50	N/A	N/A	
<b>Qualification/Acceptance Signatures:</b>						
<b>Manufacturer:</b>	Prepared by/Date: K. Dean 28.2.2017 			Checked by/Date: C. Coolbear 28.2.2017 		
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</b> (company name/address):				Signature/Date:		

	<b>QUALIFICATION TEST RECORD (QTR)</b> <b>NORSOK M-650</b>				<i>QTR. No.:</i> <b>25Cr-17</b>	
					<i>Rev. No.:</i> <b>1</b>	
<b>Manufacturer name/address/ Web page:</b>	Brafe Engineering, Grundisburgh Road, Woodbridge, Suffolk, UK. IP13 6HX <a href="http://www.brafe.com">www.brafe.com</a>					
<b>Reference standard</b>	NORSOK M-650 Ed 4					
<b>Material designation and MDS No.:</b>	ASTM A995 6A (J93380), MDS-D56 Rev 5					
<b>Manufacturing summary doc. No.:</b>	ITP-18 (for Sand & Repliwax Castings)				<i>Rev. No.:</i> 1	
<b>Products and manufacturing process(es):</b>	Sand and Repliwax Castings					
<b>Mandatory conditions and sub-contractors:</b>	Maximum Section Thickness of 155mm (6") with no Maximum Casting Weight Limit. Heat-Treat in Oven 3 Only (Verified by Roxspur - August 2016). All Major Weld Repairs to be Post Weld Heat Treated (PWHT'd.)					
<b>Other information:</b>	<u>Radiography:</u> <ul style="list-style-type: none"> <li>• AeroTech NDT, <i>Cradley Heath</i></li> <li>• Applied Inspection, <i>Chesterfield</i></li> <li>• Insight NDT, <i>Sheffield</i></li> </ul> <u>Material Testing:</u> <ul style="list-style-type: none"> <li>• Exova (Teesside), <i>Middlesbrough</i></li> <li>• Element Materials Technology, <i>Sheffield</i></li> </ul> <u>Pickling:</u> <ul style="list-style-type: none"> <li>• Metapic, <i>Chesterfield</i></li> </ul>					
<b>Qualification expires:</b>	November 2022					
<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>	
Static Castings	25Cr-17 S	155	155	260	All	
Repliwax	25Cr-17 R	40	50	N/A	N/A	
<b>Qualification/Acceptance Signatures:</b>						
<b>Manufacturer:</b>	<i>Prepared by/Date:</i> K. Dean 20.11.17			<i>Checked by/Date:</i> C. Coolbear 20.11.17		
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</b> (company name/address):				<b>Signature/Date:</b>		