

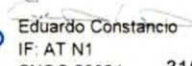
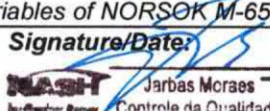
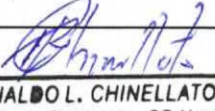
	<b>Qualification Test Record (QTR) NORSOK M-650</b>				QTR. No.: EM2205
					Rev. No.01:
<b>Manufacturer name/address/ Web page:</b>	Engemasa – Engenharia e Materiais Ltda. Ernesto Cardinalli 333 São Carlos SP 13571-390 BRAZIL www.engemasa.com.br				
<b>Reference standard</b>	NORSOK M-650, Edition 4				
<b>Material designation and MDS No.:</b>	ASTM A995 Gr.4A (UNS J92205); MDS D46, Revision 6.				
<b>Manufacturing Summary doc. No.:</b>	Engemasa Manufacturing Procedure Specification - Norsok 4A				Rev. No.:01
<b>Products and manufacturing process(es):</b>	Sand Castings Centrifugal Castings Melting: Induction Furnace Heat treatment by: electrical furnace number 06 at Engemasa premisses				
<b>Mandatory conditions and sub-contractors:</b>	<ul style="list-style-type: none"> <li>• Melting charge using ingots refined by VOD, AOD or equivalent</li> <li>• Melting charge using pure metals and Ferro alloys</li> <li>• Welding process specification to be used WPS 311/23.</li> </ul>				
<b>Other information:</b>	Inspection and Test plan 074/2023 rev04 All qualification tests witnessed by TPI (TÜV NORD Brasil - BRTÜV) and Qualification Company (Gardner Denver Nash Brasil Indústria e Comércio de Bombas Ltda)				
<b>Qualification expires:</b>	May 2029				
<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>
Sand Castings	Proaqt 00981/24 Proaqt 01489/24 Proaqt 03292/24 Proaqt 03293/24	160	160	280	All
Centrifugal Castings	Proaqt 01842/24 Proaqt 01843/24	180	180	275	All
<b>Qualification/acceptance signatures</b>					
<b>Manufacturer:</b>	<b>Prepared by/Date:</b> Danielli de Brito Balbino  Danielli de Brito Balbino 2024.05.31 20:51:36 -03'00'	<b>Checked by/Date:</b> Daniel Moreira Guarnieri  Daniel M. Guarnieri 2024.05.30 12:02:26 -03'00'			
<b>Third Part Inspection (company name /address):</b> TÜV NORD Brasil - BRTÜV Alameda Madeira, 222 – 3rd Floor - Alphaville BARUERI - SP 06454-010 - Brazil		<b>Signature/Date:</b>  Eduardo Constancio IF: AT N1 SNQC 29064 31/05/2024			
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> Gardner Denver Nash Brasil Indústria e Comércio de Bombas Ltda. Av Mercedes Benz 700 Campinas-SP 13054-750 Brazil			<b>Signature/Date:</b>   Jarbas Moraes REINALDO L. CHINELLATO Gerente de Produção - GD Nash 03 JUN 2024		