

**Qualification Test Record (QTR)**  
Ceramic mould ASTM A 995 4A (UNS  
J92205) NORSOK M-650

**SCHMEES**  
cast



<b>4QTR. No.:</b>	4A-C	<b>Rev. No.: 00</b>	25.11.2024
<b>Manufacturer name /address/ Web page:</b>	SCHMEES cast Langenfeld GmbH Rudolf-Diesel-Weg 6-8, 40764 Langenfeld / Germany www.schmees.com		
<b>Reference standard</b>	NORSOK M-650, Edition 4		
<b>Material designation and MDS No.:</b>	ASTM A 995 4A (UNS J92205), MDS D 46 Rev. 6		
<b>Manufacturing Summary doc. No.:</b>	Manufacturing summary [MS06]	Rev. No.: 3	
<b>Products and manufacturing process(es):</b>	impeller, diffuser, stage casing, pump casing, etc. static castings, ceramic moulding		
<b>Mandatory conditions and sub-contractors:</b>	<ul style="list-style-type: none"> <li>tensile &amp; impact test and micrographic examination by: TÜV Rheinland Werkstoffprüfung GmbH, Am Grauen Stein, D-51105 Köln or Element Materials Technology Hamburg GmbH, Tempowerkring 11, 21079 Hamburg</li> <li>radiographic testing by: TÜV AUSTRIA Tecnotest GmbH, Moselstr. 29, D-51371 Leverkusen &amp; GfR Gesellschaft für Radiographie GmbH, Am Walzwerk 41, D-45527 Hattingen</li> <li>pickling by: KSO Edelstahlbeizerei GmbH, Essener Str. 16, D-57234 Wilnsdorf</li> <li>corrosion testing by: TÜV Rheinland Werkstoffprüfung GmbH, Am Grauen Stein, D-51105 Köln or Element Materials Technology Hamburg GmbH, Tempowerkring 11, 21079 Hamburg</li> <li>quality heat treatment only in furnaces no. 03 / 05</li> </ul>		
<b>Other information:</b>	<ul style="list-style-type: none"> <li>Revision updated according to MDS D56 Rev. 6</li> <li>In compliance with ISO 17782</li> <li>Qualified thickness limited to 40mm due to limitation in WPQR</li> </ul>		
<b>Qualification expires:</b>	Qualification expires 01.2027		

**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>
Stage casing	C438	100	40	71	142

**Qualification/acceptance signatures**

<b>Manufacturer:</b>	<b>Prepared by/Date:</b> Brinkmann, Peter 25 November 2024	<b>Checked by/Date:</b> Weiß, Christina 25 November 2024
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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.

<b>Qualified/Accepted by:</b> Aker Solutions AS Snarøyveien 20, 1360 Fornebu PO Box 222, 1326 Lysaker Norway	 <b>Aker Solutions</b> Fornebu, Norway NO 929 877 950 VAT	<b>Signature/Date:</b> 13/12/2024 
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