

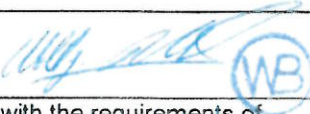



Manufacturer logo 	Qualification Test Record (QTR)				QTR. No.: 4A-S
	NORSOK M-650				Rev. No.: 09. October 2017
Manufacturer name/address/ Web page:	Edelstahlwerke Schmees GmbH Rudolf-Diesel-Weg 6-8, 40764 Langenfeld / Germany www.schmees.com				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	ASTM A 995 4A (UNS J92205), MDS D 46 Rev. 5				
Manufacturing Summary doc. No.:	Manufacturing summary [MS01], page 3-22				Rev. No.: 2
Products and manufacturing process(es):	impeller, diffuser, stage casing, pump casing, etc. static castings, sand moulding				
Mandatory conditions and sub-contractors:	<ul style="list-style-type: none"> tensile & impact test and micrographic examination by: TÜV Rheinland Werkstoffprüfung GmbH, Am Grauen Stein, D-51105 Köln radiographic testing by: Tecnotest mbH, Moselstr. 29, D-51371 Leverkusen pickling by: KSO Edelstahlbeizerei GmbH, Essener Str. 16, D-57234 Wilnsdorf corrosion testing by: Analytische Laboratorien GmbH, Industriepark Kaiserau, D-51789 Lindlar quality heat treatment only in furnace no. 03. 				
Other information:	<ul style="list-style-type: none"> Start of renewal 01.2017 Renewed with corrosion testing of test block 				
Qualification expires:	Qualification expires 01.2022				
Tested and qualified thickness and weight					
Products and manufacturing process(es):	Test record No.	Tested thickness mm	Qualified thickness mm	Test piece weight kg	Qualified weight kg
Stage casing	C437	120	120	267	All
Qualification/acceptance signatures					
Manufacturer:	Prepared by/Date: SCHAFFAFF, Marcus 09. October 2017			Checked by/Date: BURKELC, Wolfgang 09. October 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. <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>					
Qualified/Accepted by (company name /address):				Signature/Date:	
Aker Solutions AS Snarøyveien 20, 1360 Fornebu PO Box 222, 1326 Lysaker Norway				 Aker Engineering & Technology AS Reg.nr. 879 817 552	
				31/10/2017 