

	QTR Qualification Test Record NORSOK M-650				QTR. No.: 26304180 – 04
					Rev. No.: 0
Manufacturer name/address/ Web page:	TPS-Technitube Röhrenwerke GmbH Julius-Saxler Straße 7 54550 Daun www.tpsd.de				
Reference standard	NORSOK M-650, Edition 4				
Material designation and MDS No.:	UNS S31803 - MDS D48 Rev. 6 / ASTM A789 – ASME SA789				
Manufacturing summary doc. No.:	MS-26304180-04				Rev. No.: 0
Products and manufacturing process(es):	seamless cold finished tubes with bright annealed surface				
Mandatory conditions and sub-contractors:	Heat treatment in furnace no. 2 at 1040° C Heat treatment procedure verified 07/2021 No. 3 851 29-00QM Hardness max. 30HRC Uniformity survey of the heat treatment furnace: yearly				
Other information:	Heat treatment process: solution annealed (bright annealed) and gas quenched;				
Qualification expires:					
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)
seamless cold finished tubes	2021 - 30255	2,64 / 2,77	3,60		
Qualification/Acceptance signatures					
Manufacturer:	Prepared by/Date:  P.O. Box 1509 54541 Daun/Germany Frederik Meyer / 29.08.2022 (Quality Coordinator)		Checked by/Date:  P.O. Box 1509 54541 Daun/Germany Björn Schmitt / 29.08.2022 (Quality Assurance / -planning)		
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.					
Qualified/Accepted by (company name and address): MRC Global Norway AS Gamle Forusveien 53 4033 STAVANGER			Initial approval date: 19.09.2022 Expiry date (annual review): 19.09.2024 Signature: 