

	Qualification Test Record for 1.4462 bars Ø 20 to 75 mm NORSOK M-650			QTR N° : SMQ 819578	
				Rev. N° : A	
				Date : 18/02/2020	
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Manufacturer name address/Web page:		UGITECH S.A. Avenue Paul Girod, F-73403 UGINE Cedex, France www.ugitech.com			
Reference standard		NORSOK M-650 Rev. 4			
Material designation and MDS No.:		Grade and specification: Type 22Cr duplex STAINLESS STEEL DUPLEX 1.4462 (EN 10088) 22Cr5Ni X2CrNiMoN22-5-3 ASTM A479 Grade UNS S 32205 and UNS S 31803 In compliance with the requirements of NORSOK MDS D47, Rev. 6			
Manufacturing summary doc. No.:		Flow chart: Synoptique AF 98		Rev. No.: dated 30/04/2018	
Products and manufacturing process:		Melting process: Electric arc furnaces Refining AOD Continuous cast Heat from UGINE Melting shop Hot rolling process: Bars diameter Ø 20 to 75 mm			
Mandatory conditions and sub-contractors:		Condition: TT4 furnaces n° 26 or n° 27 for solution heat treatment Temperature 1020°C to 1060°C, water + polymer quenching Time between furnace and quenching ≤ 90 s Temperature of water + polymer bath ≤ 70°C			
Other information:					
Qualification expires:		February, 2025			
Tested and Qualified Thickness and Weight					
Products and manufacturing process:	Test record No.	Tested thickness mm (bar OD)	Qualified thickness mm (bar OD)	Test bar weight kg	Qualified weight kg
Bars diameter Ø 20 to 75 mm	PRJ1110012761-1/1	75 mm	20 – 75 mm	n/a	n/a
Qualification/acceptance signatures					
Manufacturer: UGITECH	Prepared by/Date: O. MARTEL 18/02/2020 		Checked by/Date: G. PELLISSIER 18/02/2020 		
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: Lloyd's Register EMEA, Tour Swiss Life 1, boulevard Vivier Merle Fr-69443 Lyon cedex 03			Signature/Date:  Lloyd's Register EMEA T. CUREY Lyon Office ☒ reviewed ☒ witnessed ☐ spot checked 18 FEB 20 		

	Qualification Test Record for 1.4462 bars Ø 75,01 to 120 mm NORSOK M-650			QTR N° : SMQ 819579 Rev. N° : A Date : 18/02/2020 Page : 1 / 8	
Manufacturer name address/Web page:	UGITECH S.A. Avenue Paul Girod, F-73403 UGINE Cedex, France www.ugitech.com				
Reference standard	NORSOK M-650 Rev. 4				
Material designation and MDS No.:	Grade and specification: Type 22Cr duplex STAINLESS STEEL DUPLEX 1.4462 (EN 10088) 22Cr5Ni X2CrNiMoN22-5-3 ASTM A479 Grade UNS S 32205 and UNS S 31803 In compliance with the requirements of NORSOK MDS D47, Rev. 6				
Manufacturing summary doc. No.:	Flow chart: Synoptique AF 98			Rev. No.: dated 30/04/2018	
Products and manufacturing process:	Melting process: Electric arc furnaces Refining AOD Continuous cast Heat from Ugine Melting shop Hot rolling process: Bars diameter Ø 75,01 to 120 mm				
Mandatory conditions and sub-contractors:	Condition: TT4 furnaces n° 26 or n° 27 for solution heat treatment Ø > 75 mm : temperature 1090°C to 1130°C, water quenching Time between furnace and quenching ≤ 90 s Temperature of water bath ≤ 50°C				
Other information:					
Qualification expires:	February, 2025				
Tested and Qualified Thickness and Weight					
Products and manufacturing process:	Test record No.	Tested thickness mm (bar OD)	Qualified thickness mm (bar OD)	Test bar weight kg	Qualified weight kg
Bars diameter Ø 75,01 to 120 mm	SMQ 4780 rev. C	115 mm	75,01 - 120 mm	n/a	n/a
Qualification/acceptance signatures					
Manufacturer: UGITECH	Prepared by/Date: O.MARTEL 18/02/2020 		Checked by/Date: G. PELLISSIER 18/02/2020 		
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: Lloyd's Register EMEA, Tour Swiss Life 1, boulevard Vivier Merle Fr-69443 Lyon cedex 03			Signature/Date:  		