Ugitech	**Qualification Test Record for 1.4462 bars Ø 20 to 120 mm according to NORSOK M-650** **TRB1 Furnace**	QTR N° : SMQ 1029999 Rev. N° : A Date : 17/04/2023 Page : 1 / 10

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) X2CrNiMoN22-5-3** • **ASTM A276 Grade UNS S 32205 and UNS S 31803** • **ASTM A479 Grade UNS S 32205 and UNS S 31803** **In compliance with the requirements of NORSOK M-630:2020, MDS D47 Rev. 6**
Manufacturing summary doc. No.:	**GED SMQ 1041026** — *Rev. No.:* **dated 27/09/2022**
Products and manufacturing process:	**Melting process:** **UGITECH:** **Electric arc furnaces** **Refining AOD** **Continuous cast Heat from Ugine Melting shop** **Production route n°AF 98** **Supplier route:** **DEW SIEGEN plant - QTR n°01** **ITALFOND BAGNOLO MELLA plant – QTR01-F51 (UNS S31803 only)** **Hot rolling process:** **Bars diameter Ø 20 to 120 mm**
Mandatory conditions and sub-contractors:	**Condition:** **TB5 - HT1 furnace for solution heat treatment** **Temperature 1050°C, water quenching** **Time between furnace and quenching ≤ 60 s** **Temperature of water ≤ 50°C**
Other information:	**All testing was performed in accredited laboratory ISO 17025 including UGITECH internal laboratory and APAVE-TASSIN (France)**
Qualification expires:	**April 2028**

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 characteristics	**SMQ 1029999**	**120 mm**	**20 – 120 mm**	**N/A**	**N/A**

Qualification/acceptance signatures

Manufacturer:	*Prepared by/Date:* **M. Ben Ali**	*Checked by/Date:* **G. Pellissier**
UGITECH		

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:	*Signature/Date:*
LRQA Inspection France SAS, **Tour Silex 2 – Espace Wellio** **9, rue des cuirassiers** **69003 Lyon - France**	LRQA Inspection France SAS ☑ Witnessed ☐ Monitored ☑ Reviewed Name: Jean-christophe Richard Date: 17 April 2023 Signed by:richard jean-christophe Signed at:2023-04-17 14:04:14 +00:00 Reason:Witnessing richard jean-christoph Ref. No.: PRJ11100381569-1 Office: LYON LRQA004 11.2021