



	<b>Qualification Test Record for 1.4507 bars Ø 20 to 75 mm NORSOK M-650</b>			QTR N° : SMQ 822826	
				Rev. N° : A	
				Date : 18/02/2020	
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<i>Manufacturer name address/Web page:</i>		<b>UGITECH S.A.</b> Avenue Paul Girod, F-73403 UGINE Cedex, France      www.ugitech.com			
<i>Reference standard</i>		<b>NORSOK M-650 Rev. 4</b>			
<i>Material designation and MDS No.:</i>		<b>Grade and specification: Type 25Cr duplex</b> <b>STAINLESS STEEL DUPLEX 1.4507 (EN 10088), X2CrNiMoCuN25-6-3</b> <b>ASTM A479 Grade UNS S 32550</b>  <b>In compliance with the requirements of NORSOK MDS D57, Rev. 6.</b>			
<i>Manufacturing summary doc. No.:</i>		<b>Flow chart: Synoptique AF 98</b>		<b>Rev. No.: dated 30/04/2018</b>	
<i>Products and manufacturing process:</i>		<u><b>Melting process:</b></u> <b>Electric arc furnaces</b> <b>Refining AOD</b> <b>Continuous cast Heat from Ugine Melting shop</b>  <u><b>Hot rolling process:</b></u> <b>Bars diameter Ø 20 to 75 mm</b>			
<i>Mandatory conditions and sub-contractors:</i>		<u><b>Condition:</b></u> <b>TT4 furnaces n° 26 or n° 27 for solution heat treatment</b> <b>Temperature 1040°C to 1080°C, water + polymer quenching</b> <b>Time between furnace and quenching ≤ 90 s</b> <b>Temperature of water + polymer bath ≤ 70°C</b>			
<i>Other information:</i>					
<i>Qualification expires:</i>		<b>February, 2025</b>			
<b>Tested and Qualified Thickness and Weight</b>					
<i>Products and manufacturing process:</i>	<i>Test record No.</i>	<i>Tested thickness mm (bar OD)</i>	<i>Qualified thickness mm (bar OD)</i>	<i>Test bar weight kg</i>	<i>Qualified weight kg</i>
<b>Bars diameter Ø 20 to 75 mm</b>	<b>PRJ1110012761-1/3</b>	<b>75 mm</b>	<b>20 – 75 mm</b>	<b>n/a</b>	<b>n/a</b>
<b>Qualification/acceptance signatures</b>					
<i>Manufacturer:</i>  <b>UGITECH</b>		<i>Prepared by/Date:</i> <b>O.MARTEL</b> <b>18/02/2020</b> 		<i>Checked by/Date:</i> <b>G. PELLISSIER</b> <b>18/02/2020</b> 	
<p>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.</p>					
<i>Qualified/Accepted by:</i> <b>Lloyd's Register EMEA,</b> <b>Tour Swiss Life</b> <b>1, boulevard Vivier Merle</b> <b>Fr-69443 Lyon cedex 03</b>			<i>Signature/Date:</i> 		
					

UGITECH



**Qualification Test Record for 1.4507  
bars Ø 75,01 to 120 mm  
NORSOK M-650**

QTR N° : SMQ 822827

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 25Cr duplex

STAINLESS STEEL DUPLEX 1.4507 (EN 10088), X2CrNiMoCuN25-6-3

ASTM A479 Grade UNS S 32550

In compliance with the requirements of NORSOK MDS D57, Rev. 6.

Manufacturing summary  
doc. No.:

Flow chart: Synoptique AF 98

Flow chart: Synoptique AF 98

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 1040°C to 1080°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	120 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.  
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:

Register EMEA 18/02/2020

T. CUREY  
Lyon Office  
Reviewed  
Witnessed  
Spot checker



Lloyd's  
Register