

35-00028951

166106

# SIDERINOX

SpA

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AZIENDA CON SISTEMA DI  
 GESTIONE PER LA QUALITÀ  
 CERTIFICATO DA DNV  
 =UNI EN ISO 9001:2000=

## INSPECTION CERTIFICATE EN 10204 3.1 N° 017369 of 12.04.2006

Purchaser <b>VAN LEEUWEN STAINLESS BV</b>			
DCT n. <b>1111</b> of <b>12.04.2006</b>		SIDERINOX order number n. <b>743</b> of <b>17.03.2006</b>	
Customer's order n. <b>603141</b> of <b>17.03.2006</b>			

### MATERIAL DESCRIPTION

Product description <b>Stainless steel round pipe Ø 20 x 2 mm AISI 316L brushed EN 10217-7.</b>			
Dimension <b>20 x 2 mm</b>	Steel type <b>EN. 1.4404 / AISI 316L</b>	Quantity (m) <b>510</b>	Weight (kg) <b>460</b>
Production Norm <b>EN 10217-7</b>		Tolerances <b>D3 \ T3</b>	Welding factor <b>V=1</b>
Marking <b>MANUFACTURER'S MARK - DIMENSION - STEELGRADE - HEAT N. - PRODUCTION NORM - EXECUTION - MILL'S INSPECTION REPRESENTATIVE</b>			
Manufacturing process <b>Route = 05</b>			

### CHEMICAL COMPOSITION

Heat	% C	% Mn	% P	% S	% Si	% Cr	% Ni	% Mo	% Ti
	0,000 - 0,030	0,000 - 2,000	0,000 - 0,030	0,000 - 0,010	0,000 - 1,000	16,500 - 18,500	9,000 - 13,000	2,000 - 2,900	0,000 - 0,050
<b>47046</b>	<b>0,021</b>	<b>1,120</b>	<b>0,024</b>	<b>0,001</b>	<b>0,390</b>	<b>16,600</b>	<b>10,200</b>	<b>2,060</b>	

The chemical values refer to the certificate issued by the steel mill according to EN 10088 / 10028-7 / ASTM A 240

### TEST RESULTS

Test unit	Test Class	(D)	(P)	TENSILE TEST in Nmm <sup>2</sup> -MPa			HARDNESS
				Yield Strength		Tensile Strength	
				Rp 0,2%	Rp 1%	Rm	A %
<b>T06032281</b>	<b>TC1</b>	<b>L</b>	<b>M</b>	<b>285</b>	<b>253</b>	<b>570</b>	<b>42</b>

(D) Direction: (L) Longitudinal, (T) Transverse - \*\* (P) Position: (W) Welding, (M) Material

Visual inspection	OK	Drift expanding test	OK	Sealing test	OK
Check on dimensions	OK	EN 10234	EN 10246-2	Non destructive Eddy Current test	OK
Anti mixing test	OK	EN 10233	EN 10246-3	Intergranular corrosion test	OK
	OK	EN 910	N. P.		N. P.

WE CERTIFY THAT THE MATERIAL SUPPLIED COMPLIES WITH THE REQUIREMENTS AGREED ON THIS ORDER

Remarks

Certifications:

UNI EN ISO 9001:2000  
 Dir. PED 97/23/EC Encl. 1, Point 4.3, Column 3  
 AQUAP from Nr. 7293-06-TU to Nr 7298-08-TU

Qualifications:

WPS/WPAR: EN 288 - EN ISO 15154-11 - ASME IX  
 WLO: EN 1418 - ASME IX operator  
 NDT: EN 473 - ASNT operator

Cert. Coll. - Rev. 0 - 05/05

Document issued by  
the mill's inspector

*R. Colby*  
R. Colby

Document confirmed by the authorized  
company responsible

*[Signature]*  
M. Bertoni