

CERTIFICATO DI COLLAUDO EN 10204/3.1

1546708

PAG. /

SPECIFICATION: ASTM A 240 ASTM A 480  
ASME SA 240

CUSTOMER ORDER №

CUSTOMER

MILL TEST CERTIFICATE

INTERNAL ORDER №

8E150236

DOC.CREDIT N. M04091506NU00250

SHIPPING NOTICE №

00056352

PRODUCT:

STAINLESS STEEL COILS

\*P625 04.05 DISC

COIL, N*	HEAT N*	CHEMICAL COMPOSITION											
		% C	% Mn	% Si	% P	% S	% Cr	% Ni	% Mo	% N	% Ti	% Cu	%
760819	0442576	.023	.930	.340	.027	.001	16.54	10.14	2.04	.046		.240	
833344	0490070	.023	.890	.320	.028	.001	16.82	10.24	2.04	.048		.220	

STELL TYPE:

316L/316  
316L

PRODUCER TRADE MARK

INSPECTOR STAMP:

THE MATERIAL MEETS THE HARDNESS REQUIREMENTS OF NACE MR0175/MR0103

80 CENTRO DI FINITURA P.F, TERN 1050 °c

M04091506NU00250

HEAT TRATMENT – ANNEALING: AIR – WATER SPRAY – WATER COOLING

STEELMAKING PROCESS

THE MATERIAL IS RESISTANT TO INTERCRYSTALLINE CORROSION IN DACCORDANCE WITH:

ASTM A262 E

MOD. 2114-33355130

TEST RESULTS (1 N/mm <sup>2</sup> = 1 MPa)																	
PACKAGE N*	COIL N*	DIMENSIONS mm	P-CES N*	FINISH	WEIGHT	(1) PRELIEVO	(2) SNC	TRACTION						HARDNESS		BEND	GRAIN
								Rp02%	Rp 1%	Rm	A %						
								N/mm2	N/mm2	N/mm2	Lo=2"	Lo=80	Lo=A5	HR B	H	180	(mm)
REQUIRED CHARACTERISTICS								≥ 170	≥	>485	≥ 40	≥	≥	≤ 95	≤		
C22741	760819	1.50X1545.0	1	2B	8730	T	T	275		607	57.3			75.0			
C22741						C	T	269		598	58.4			73.0			
C22742	760819	1.50X1545.0	1	2B	9020	T	T	275		607	57.3			75.0			
C22742						C	T	269		598	58.4			73.0			
C34909	833344	1.50X1245.0	1	2B	6048	T	T	266		589	58.8			73.0			
C34909						C	T	264		585	59.3			72.0			
C34921	833344	1.50X1245.0	1	2B	4983	T	T	266		589	58.8			73.0			
C34921						C	T	264		585	59.3			72.0			

We certify the products rated above complying order requirements.

COMPLIES WITH ED 2000/53/EC

1)Location  
T=Top  
C=Bottom

2) Direction  
T-Transverse  
L-Long

MARKING

Wn-Type  
Heath-Coll N  
Thickness-Flash

TERNI

Certificato emesso automaticamente

08-07-2015

MOD. 2114-33355130

# Mill Test Certificate

Seller:  
 Manufacturer:  
 Order No.:  
 Supplier:  
 Customer:

PO No.:  
 Commodity: STAINLESS COLD ROLLED COIL  
 Spec & Type: ASTM-A240M-316L

Certificate No.:  
 Date of issue:  
 Surface Finish:

Size	Product No.	Quantity	Weight (kg)	Heat No.	Position	Tensile Test			Hardness  HRB		Division	Chemical Composition									
						YS 02	TS	EL				C	Si	Mn	P	S	Cr	Ni	Cu	Mo	N
0.8×1219×C	QCR0430	1	14.579	SY80601	T B	289 301	644 642	55 55	60.0 60.1		L	0.0203	0.579	1.036	0.0311	0.0039	16.208	10.070	0.245	2.056	256
*** Sub Total (030)***		1	14.579 (kg)																		
** Heal Treatment ** Solution Treatment Min 1040 °C Quenching																					
*** Grande Total***		1	14.579 (kg)																		
*** Grand Total ***		1	14.579 (kg)																		
*** Last Item***												* p62506,09 ALSC									

\* Position - T: Top, Middle, B: Bottom  
 \* Tensile Test. Direction: Transversal, Gauge Length: 50 mm (Rectangular)  
 YP Method: 0.2% off-set  
 \* Division – L: Ladle Analysis

We hereby certify that the material herein has been made in accordance with the order and above specification.  
 No repair welding was performed to the products.  
 Test Certificate is Issued according to EN10204 3.1.

Legal sanction can be imposed on forging. Improper use of product can cause safety issues.

Surveyor To:

**MILL TEST CERTIFICATE**

EN 10204 3.1

End User		Works No.			Certificate Ref. No.	
		141112010			20150107-1026-1-013	1/4
Customer Name					Purchase Order No.	
Specification	Sub-Section	Grade (TYPE)	Edition	Addenda	UNS	Finish
ASTM A240M/480M		304			S30400	No. 1

Head Treatment – Solution Annealed	Condition of Plate	Mps No.
1080 °C WATER COOLING	GOOD	
Intergranular Corrosion Test	UT Test Spec	

No.	Bungle No.	Request No.	Heat No.	Plate No.	Product SIZE			Q'ty (sh)	Weight (kg)	AGS	Roughness	Permeability (u)	POSITION	DIRECTION	SIZE	Impact Test (charpy)				
					(mm)											V-notch		°C	Min	
					T	W	L									1st	2nd	3rd	Avg	
1			SD10586	11P8644878-1-01	35	2.438	7.000	1	4.820.0				T	B						
2			SD10586	11P8644878-1-02	35	2.438	7.000	1	4.820.0				T	B						
3			SD10570	11P8644899-1-01	25	2.000	6.096	1	2.460.0				T	B						
4			SD10570	11P8644899-1-02	25	2.000	6.096	1	2.460.0				T	B						
5			SD10570	11P8644901-1-01	25	2.000	6.096	1	2.460.0				T	B						

No.	DIRECTION	Chemical Composition (%)													Practice				POSITION	DIRECTION	GL	Tensile Test (1N/m=1MPa)					Hardness HRB 92																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		Cont	C	Si	Mn	P	S	Cr	Ni	Mo	N	Co	Cu	Ti	Nb	Y.S 0.2%	Y.S 1.0%	T.S				EL	Ra																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Max	0.070	0.75	2.00	0.045	0.030	19.50	10.50		0.100					A	E	B	C	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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1	PLP		0.066	0.48	0.96	0.030	0.002	18.42	8.10	0.18	0.034	0.18	0.29																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

Remarks	
*P62501,02 UP HOLDER	
Manufacture Info.	

Note	NO REPAIR WELDING HAS BEEN PERFORMED ON THE MATERIAL										Boneyer or Inspector to:													
	Position		T: Top		N: Middle		B: Bottom		Division		L: Ledle Analysis		P: Product Analysis											
	Direction		L: Longitudinal		C: Crossfire (Transverse)						AGS		ASTM E112 A, G, S TEST											
	GL (Gauge Lengh) ASTM E8										10% Oxalic Acid Etch Text – ASTM A262 Practice A										General Manager of DKC Quality			
	Rectangle		: A: 50mm		B: 70mm		C: 100 mm		D: 5.65VA		1: Step Structure				2: Dual Structure									
	Round		: E: 50mm		F: 70mm		G: 5.65VA						3: Ditch Structure				4: Isolated Ferrite Roots							
	Impact Test Specimen Size										5: Interdendritic Ditchs										6: End Grain Pilling 1.11			
	1:10X10mm 2:7.5x10mm 3:5.0X10mm 4:2.5X10mm										CU-CU Sulfate-Sulfuric Acid TEST – ASTM A262 Practice E													
	(1:0.39X0.39 inch 2:0.3X0.39 inch 3:0.2X0.39 inch 4:0.1X0.39 inch										G: GOOD										N: NOT GOOD			

We hereby certify that the material herein has been made in accordance with the order and specification

F21S-01(A4)

x

Rev.6(2011.07.27)

## INSPECTION-CERTIFICATE

CUSTOMER :

SUPPLIER :

PURCHASE ORDER NO :

CERT. NO. :

MANUFACTURE NO. :

STEEL GRADE :	304/304L	SPECIFICATION:	ASTM A479MOD	MELTING PROCESS :	E.A.F.
SIZE:	DIAMETER 150 MM	EDITION/ADDENDA:	14		V.O.D.
ARTICLE :	ROUND BARS	STATE OF DELIVERY :	SOLUTION TREATMENT		STRAND CASTING
			ROUGH TURNED		

Heat No.		Chemical Composition(wt.%)														Non-Metallic Inclusion Test								
		C	Si	Mn	P	S	Ni	Cr	Mo	Cu														
Spec.	MIN.						8.000	18.000									ASTM-E45							
	MAX.	.030	1.000	2.000	.0450	.0300	10.500	20.000									TA	TB	TC	TD	HA	HB	HC	HD
N08703		.009	.414	1.602	.0337	.0234	8.547	18.024	.202	.567							2.0	0.0	1.5	1.0	0.0	0.0	0.0	0.0
Test No. (Lot No.)		Tensile Properties					Hardness		Impact Test			Decarburized Depth (mm)		Grain Size No.	Additional Tests									
		Y.S.(KSI)		T.S. (KSI)	EL. (%)	R.A. (*)	Body HB				TOTAL	FERR.												
		0.2%																						
Spec.	MIN.	30.0		75.0	30.0	40.0									Ultrasonic test: GOOD									
	MAX.																							
4000-1		41.0		79.0	63.0	78.0	135						2.0											
Lot No.		Bundle No.	Length (ram)	Number of Qt.	Weight		Additional Tests / Remarks																	
					Kg	lb																		
5041194000		50411940001	5785 - 5895	2	1.648	3.633	Corrosion Test: GOOD Solution : 1050°C. 3:00Hrs. WATER cooling  ISO 15156 (Hardness Only) EN 10204 Type 3.1 /NO REPAIR WELDING. FREE FROM MERCURY CONTAMINATIO <div>* P62507.09 HOLDER</div>																	
							We here certify, that the material described above has been tested and complies with the terms of the order contract. Our quality system is certified in accordance with ISO 9001: 2008 by DNV.																	
			TOTAL	2	1.648	3.633	Team Manager. Quality Assurance Team DATE : JUN.01. 2015																	

