

**ERRE.DI SRL**

Via Dei Lavoratori, 15  
20092 CINISELLO BALSAMO  
MILANO ( ITALY)  
PHONE+39 02 66040229 / 66047168  
FAX +39 02 6128041



CAM LOCK COUPLINGS

**CLIENT :**

***DESMET BALLESTRA SPA***

***MILANO***

**" CERTIFICATE DOSSIER "**

ORDER N°	102028
DATED	02/11/2010
POSITION	N° 10-20-30-40
COMM.	1E35Z

**ERRE.DI JOB N° 2720/10**



**ERRE.DI. s.r.l.**

**Raccordi Rapidi - Tubi Flessibili  
Forniture Industriali**

Capitale Sociale 52.000,00 € int. vers.

**SEDE LEGALE:** Via Archimede, 57 - MILANO (Italy)

Spett.le

**DESMET BALLESTRA SPA**

VIA P.PORTALUPPI 17

20138 MILANO ( MI ) ( ITA )

Cinisello B.mo, 10/12/2010

**CERTIFICATO DI CONFORMITA' (ref. UNI EN 10204 ref. 2.1) N° 2720/A1**  
**CERTIFICATE OF COMPLIANCE**

**Vs. Ordine / Your Reference : N° 102028 2010**

**del / dated : 02/11/2010**

**Ns. DDT / Our Delivery Note : N° 2799**

**del / dated : 10/12/2010**

**Ns. Commessa / Our Job : N° 2720 OC**

**del / dated : 03/11/2010**

**Descrizione / Description :**

<b>Pos.</b>	<b>10 Item:</b>	Expansion joint type GC 33 DN 100 (4") ANSI 150LB AISI 316 Spc.: SB-ATI-PV032 Code: P20.GY04P.AJ000	NR	1,00
<b>Pos.</b>	<b>20 Item:</b>	Expansion joint type GC 33 DN 150 (6") ANSI 150LB AISI 316 Spc.: SB-ATI-PV032 Code: P20.GY06P.AJ000	NR	1,00
<b>Pos.</b>	<b>30 Item:</b>	Expansion joint type GC 33 DN 250 (10") ANSI 150LB PN16 AISI 304 Spc.: SB-ATI-PV032 Code: P20.GY10P.AG000	NR	2,00
<b>Pos.</b>	<b>40 Item:</b>	Expansion joint type GC 33 DN 150 (6") ANSI 150LB AISI 304 Spc.: SB-ATI-PV032 Code: P20.GY06P.AG000	NR	2,00

*è stato prodotto in conformità all'ordine di acquisto e secondo le norme o disegni da questo citate.*

*is manufactured in conformity with the P.O. and in accordance with specifications and relevant drawings*

ERRE.DI. S.r.l.

Redatto da:

Approvato da:

**MOD. CERTCONF.-02**



**ERRE.DI. s.r.l.**

**Raccordi Rapidi - Tubi Flessibili  
Forniture Industriali**

Capitale Sociale 52.000,00 € int. vers.

**SEDE LEGALE:** Via Archimede, 57 - MILANO (Italy)

Spett.le

**DESMET BALLESTRA SPA**

VIA P.PORTALUPPI 17

20138 MILANO ( MI ) ( ITA )

Cinisello B.mo, 10/12/2010

**CERTIFICATO DI COLLAUDO (ref. UNI EN 10204 ref. 3.1) N° 2720/B1**  
**TEST CERTIFICATE**

**Vs. Ordine / Your Reference : N° 102028 2010**

**del / dated : 02/11/2010**

**Ns. DDT / Our Delivery Note : N° 2799**

**del / dated : 10/12/2010**

**Ns. Commessa / Our Job : N° 2720 OC**

**del / dated : 03/11/2010**

**Rif. Rapporto di Collaudo ref. :**  
Test Report

**Descrizione / Description :**

<b>Pos.</b>	<b>10 Item:</b>	Expansion joint type GC 33 DN 100 (4") ANSI 150LB AISI 316 Spc.: SB-ATI-PV032 Code: P20.GY04P.AJ000	NR	1,00
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**TIPO DI COLLAUDO ESEGUITO/Inspection Testing**

<b>COLLAUDO DI TENUTA</b> (PRESSURE TEST) <b>Manometro n° 994477</b> (Prove effettuate a temperatura ambiente)	<b>IDRAULICO / Hydraulic</b>	<b>bar</b>	
	<b>PNEUMATICO / Pneumatic</b>	<b>06 bar</b>	<b>POSITIVE</b>
<b>DURATA DI COLLAUDO / Testing Time</b>			<b>10 min</b>
<b>COLLAUDO VISIVO DIMENSIONALE COME DA SPC. SB-ATI-PV032</b> (FINAL VISUAL AND DIMENSIONAL INSPECTION)			<b>POSITIVE</b>
<b>TEST DI CONDUCIBILITA' ELETTRICA : <math>R &lt; 10^6</math></b> (ELECTRICAL CONDUCTIVITY TEST) According to B.S. 5173: Part 4:1977		<b>POSITIVE</b> <input type="checkbox"/>	<b>NEGATIVE</b> <input type="checkbox"/>
			<b>N.A.</b> <input checked="" type="checkbox"/>

ERRE.DI. S.r.l.

Redatto da:

Approvato da:

MOD.CDV.-02



**ERRE.DI. s.r.l.**

**Raccordi Rapidi - Tubi Flessibili  
Forniture Industriali**

Capitale Sociale 52.000,00 € int. vers.

**SEDE LEGALE:** Via Archimede, 57 - MILANO (Italy)

Spett.le

**DESMET BALLESTRA SPA**

VIA P.PORTALUPPI 17

20138 MILANO ( MI ) ( ITA )

Cinisello B.mo, 10/12/2010

**CERTIFICATO DI COLLAUDO (ref. UNI EN 10204 ref. 3.1) N° 2720/B2**  
**TEST CERTIFICATE**

**Vs. Ordine / Your Reference : N° 102028 2010**

**del / dated : 02/11/2010**

**Ns. DDT / Our Delivery Note : N° 2799**

**del / dated : 10/12/2010**

**Ns. Commessa / Our Job : N° 2720 OC**

**del / dated : 03/11/2010**

**Rif. Rapporto di Collaudo ref. :**  
Test Report

**Descrizione / Description :**

<b>Pos.</b>	<b>20 Item:</b>	Expansion joint type GC 33 DN 150 (6") ANSI 150LB AISI 316 Spc.: SB-ATI-PV032 Code: P20.GY06P.AJ000	NR	1,00
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**TIPO DI COLLAUDO ESEGUITO/Inspection Testing**

<b>COLLAUDO DI TENUTA</b> (PRESSURE TEST) <b>Manometro n° 994477</b> (Prove effettuate a temperatura ambiente)	<b>IDRAULICO / Hydraulic</b>	<b>bar</b>	
	<b>PNEUMATICO / Pneumatic</b>	<b>6 bar</b>	<b>POSITIVE</b>
<b>DURATA DI COLLAUDO / Testing Time</b>			<b>10 min</b>
<b>COLLAUDO VISIVO DIMENSIONALE COME DA SPC. SB-ATI-PV032</b> (FINAL VISUAL AND DIMENSIONAL INSPECTION)			<b>POSITIVE</b>
<b>TEST DI CONDUCIBILITA' ELETTRICA : <math>R &lt; 10^6</math></b> (ELECTRICAL CONDUCTIVITY TEST) According to B.S. 5173: Part 4:1977		<b>POSITIVE</b> <input type="checkbox"/>	<b>NEGATIVE</b> <input type="checkbox"/>
			<b>N.A.</b> <input checked="" type="checkbox"/>

ERRE.DI. S.r.l.

Redatto da:

Approvato da:

MOD.CDV.-02



**ERRE.DI. s.r.l.**

**Raccordi Rapidi - Tubi Flessibili  
Forniture Industriali**

Capitale Sociale 52.000,00 € int. vers.

**SEDE LEGALE:** Via Archimede, 57 - MILANO (Italy)

Spett.le

**DESMET BALLESTRA SPA**

VIA P.PORTALUPPI 17

20138 MILANO ( MI ) ( ITA )

Cinisello B.mo, 10/12/2010

**CERTIFICATO DI COLLAUDO (ref. UNI EN 10204 ref. 3.1) N° 2720/B3**  
**TEST CERTIFICATE**

**Vs. Ordine / Your Reference** : N° 102028 2010

**del / dated** : 02/11/2010

**Ns. DDT / Our Delivery Note** : N° 2799

**del / dated** : 10/12/2010

**Ns. Commessa / Our Job** : N° 2720 OC

**del / dated** : 03/11/2010

**Rif. Rapporto di Collaudo ref. :**  
Test Report

**Descrizione / Description :**

<b>Pos.</b>	<b>30 Item:</b>	Expansion joint type GC 33 DN 250 (10") ANSI 150LB PN16 AISI 304 Spc.: SB-ATI-PV032 Code: P20.GY10P.AG000	NR	2,00
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**TIPO DI COLLAUDO ESEGUITO/Inspection Testing**

<b>COLLAUDO DI TENUTA</b> (PRESSURE TEST) <b>Manometro n° 994477</b> (Prove effettuate a temperatura ambiente)	<b>IDRAULICO / Hydraulic</b>	bar	
	<b>PNEUMATICO / Pneumatic</b>	6 bar	<b>POSITIVE</b>
<b>DURATA DI COLLAUDO / Testing Time</b>			10 min
<b>COLLAUDO VISIVO DIMENSIONALE COME DA SPC. SB-ATI-PV032</b> (FINAL VISUAL AND DIMENSIONAL INSPECTION)			<b>POSITIVE</b>
<b>TEST DI CONDUCIBILITA' ELETTRICA : <math>R &lt; 10^6</math></b> (ELECTRICAL CONDUCTIVITY TEST) According to B.S. 5173: Part 4:1977		POSITIVE <input type="checkbox"/>	NEGATIVE <input type="checkbox"/>
		N.A. <input checked="" type="checkbox"/>	

ERRE.DI. S.r.l.

Redatto da:

Approvato da:

MOD.CDV.-02



**ERRE.DI. s.r.l.**

**Raccordi Rapidi - Tubi Flessibili  
Forniture Industriali**

Capitale Sociale 52.000,00 € int. vers.

**SEDE LEGALE:** Via Archimede, 57 - MILANO (Italy)

Spett.le

**DESMET BALLESTRA SPA**

VIA P.PORTALUPPI 17

20138 MILANO ( MI ) ( ITA )

Cinisello B.mo, 10/12/2010

**CERTIFICATO DI COLLAUDO (ref. UNI EN 10204 ref. 3.1) N° 2720/B4**  
**TEST CERTIFICATE**

**Vs. Ordine / Your Reference : N° 102028 2010**

**del / dated : 02/11/2010**

**Ns. DDT / Our Delivery Note : N° 2799**

**del / dated : 10/12/2010**

**Ns. Commessa / Our Job : N° 2720 OC**

**del / dated : 03/11/2010**

**Rif. Rapporto di Collaudo ref. :**  
Test Report

**Descrizione / Description :**

<b>Pos.</b>	<b>40 Item:</b>	Expansion joint type GC 33 DN 150 (6") ANSI 150LB AISI 304 Spc.: SB-ATI-PV032 Code: P20.GY06P.AG000	<b>NR</b>	<b>2,00</b>
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**TIPO DI COLLAUDO ESEGUITO/Inspection Testing**

<b>COLLAUDO DI TENUTA</b> (PRESSURE TEST) <b>Manometro n° 994477</b> (Prove effettuate a temperatura ambiente)	<b>IDRAULICO / Hydraulic</b>	<b>bar</b>	
	<b>PNEUMATICO / Pneumatic</b>	<b>6 bar</b>	<b>POSITIVE</b>
<b>DURATA DI COLLAUDO / Testing Time</b>			<b>10 min</b>
<b>COLLAUDO VISIVO DIMENSIONALE COME DA SPC. SB-ATI-PV032</b> (FINAL VISUAL AND DIMENSIONAL INSPECTION)			<b>POSITIVE</b>
<b>TEST DI CONDUCIBILITA' ELETTRICA : R &lt; 10<sup>6</sup></b> (ELECTRICAL CONDUCTIVITY TEST) According to B.S. 5173: Part 4:1977		<b>POSITIVE</b> <input type="checkbox"/>	<b>NEGATIVE</b> <input type="checkbox"/>
			<b>N.A.</b> <input checked="" type="checkbox"/>

ERRE.DI. S.r.l.

Redatto da:

Approvato da:

MOD.CDV.-02

**ERRE.DI SRL**

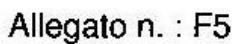
Via Dei Lavoratori, 15  
**20092 CINISELLO BALSAMO**  
**MILANO - ITALY**  
**PHONE +39 02-66040229 / 66047168**  
**FAX 2- +39 02-6128041**



**CAM LOCK COUPLINGS**

**MATERIAL CERTIFICATE POS. 10**

**Code: P20.GY04P.AJ000**



Standard:KSD 3698

Standard: KS D 3698  
Cold Rolled Stainless Plates, Sheets and Strip  
KS Approval Number: NO. 1783  
EN 10204 3.1B

CUSTOMER: ACCIAI VENDER SPA  
DESTINATION: LA SPEZIA PORT, ITALY

# MILL TEST CERTIFICATE

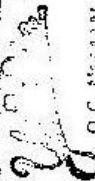
LTG NO: TIT  
FINISH: BA

Coil No. (HEAT NO)	Type (ASTI)	SIZE(NPS)	MECHANICAL PROPERTIES		Mechanical Properties					Chemical Composition (%)									
			Net	Gross	(0.2%) Y.S.	T.S. KSI	EL. (%)	HV	C x100	SI x100	Mn x100	P x1000	S x1000	NI x100	Cr x100	Mo x100	W 100		
001 08053333	316L	0.400X100.000C	2.109	2.184	24	62	62	159	1.8	56	109	25	2	1045	1681	202	50550		
002 08053333	1.4404	0.400X100.000C	2.111	2.186	24	62	62	159	1.8	56	109	25	2	1045	1681	202	50550		
003 08053333		0.400X100.000C	1.993	2.079	24	62	62	159	1.8	56	109	25	2	1045	1681	202	50550		
004 08053333		0.400X100.000C	3.749	3.818	24	62	62	158	1.8	56	109	25	2	1045	1681	202	50550		
005 08053333		0.400X100.000C	3.770	3.854	24	62	62	158	1.8	56	109	25	2	1045	1681	202	50550		
006 08053333		0.400X100.000C	3.735	3.810	24	62	62	158	1.8	56	109	25	2	1045	1681	202	50550		
007 08053333		0.400X100.000C	3.613	3.692	24	62	62	159	1.8	56	109	25	2	1045	1681	202	50550		
008 08053333		0.400X100.000C	3.025	3.102	24	62	62	159	1.8	56	109	25	2	1045	1681	202	50550		
009 08053333		0.400X100.000C	3.027	3.110	24	62	62	159	1.8	56	109	25	2	1045	1681	202	50550		
010 08053333		0.400X100.000C	2.292	2.310	25	63	61	166	2.0	63	112	25	2	1042	1680	202	50550		
011 08053333		0.400X100.000C	2.240	2.313	25	63	61	166	2.0	63	112	25	2	1042	1680	202	50550		
012 08053333		0.400X100.000C	2.244	2.322	25	63	61	165	2.0	63	112	25	2	1045	1681	202	50550		
013 08053333		0.400X100.000C	2.461	2.542	24	62	62	160	1.8	56	109	25	2	1045	1681	202	50550		
014 08053333		0.400X100.000C	2.471	2.532	24	62	62	160	1.8	56	109	25	2	1045	1681	202	50550		
015 08053333		0.400X100.000C	2.456	2.555	24	62	62	160	1.8	56	109	25	2	1045	1681	202	50550		
016 08053333		0.400X100.000C	2.477	2.538	24	62	62	160	1.8	56	109	25	2	1045	1681	202	50550		
017 08053333		0.400X100.000C	2.477	2.538	24	62	62	160	1.8	56	109	25	2	1045	1681	202	50550		
018 08053333		0.400X100.000C	2.477	2.538	24	62	62	160	1.8	56	109	25	2	1045	1681	202	50550		
019 08053333		0.400X100.000C	2.477	2.538	24	62	62	160	1.8	56	109	25	2	1045	1681	202	50550		

Remarks :

W/ CERTIFY THAT THE ABOVE MATERIALS HAS BEEN MADE IN ACCORDANCE WITH ASTM A 240/A 240M, EN 10088-2

DATE : 30/07/03

Quality Control Manager :  


TEL : (031) 494-0421 ~ 2  
O.C. 031.0191  
DAVANG 031.0191

4/2007 = 206,17%





Allegato n. : 671ISO150100



ISO 9001:2008  
Quality System Approved  
by DNV n°02945

Questo documento è riprodotto mediante un sistema  
computerizzato ed è conforme all'originale custodito  
presso i nostri archivi

To the kind attention:  
GIORGIO SRL  
ODT N° 17437 15/11/2010 # 3 HEAT 6/2  
ITEM FLO1P1AA05112  
FLANGIA SNA105 50 ANSI 150 4"  
Your Doc Ref 10105610 11/11/2010

CANGZHOU HUAYE METAL PRODUCTS CO., LTD  
ADD: BU LAO QIAO INDUSTRIAL ZONE MENG CUN COUNTY HEBEI CHINA  
TEL: 0086-317-3015121 E-mail: huayemetal@163.com  
MILL CERTIFICATE  
(Chemical & Mechanical)

Date: 2010-8-23  
Issue: 20100829  
Certificate No: 598500

Purchaser: VALVOROBICA INDUSTRIALE SPA  
Contract No: 5928700  
Commodity: CAST STEEL SLIP ON FLANGES 150  
PSI AMERICAN STANDARD

SPECIFICATIONS		CHEMICAL COMPOSITIONS										PHYSICAL PROPERTIES			
ITEM	PCS Heat No.	DESCRIPTION	C	Mn	P	S	Si	Cr	Ni	Cu	MAX MAX	MAX MAX	MAX MAX	MAX MAX	MAX MAX
1	320	671 FLANGE 50 A105 ANSI 150 12"	0.35	1.1	0.035	0.04	0.4	0.4	0.4	0.4	0.05	0.05	0.05	0.05	250 MPa 20% 30% 150
2	100	671 FLANGE 50 A105 ANSI 150 9"	0.2	0.8	0.035	0.035	0.3	0.05	0.01	0.14	0.01	0.004	0.01	0.01	250 MPa 20% 30% 150
3	1000	671 FLANGE 50 A105 ANSI 150 7"	0.2	0.8	0.035	0.035	0.3	0.05	0.01	0.14	0.01	0.004	0.01	0.01	250 MPa 20% 30% 150
4	1200	671 FLANGE 50 A105 ANSI 150 3"	0.2	0.8	0.035	0.035	0.3	0.05	0.01	0.14	0.01	0.004	0.01	0.01	250 MPa 20% 30% 150
5	800	671 FLANGE 50 A105 ANSI 150 4"	0.2	0.8	0.035	0.035	0.3	0.05	0.01	0.14	0.01	0.004	0.01	0.01	250 MPa 20% 30% 150
6	200	671 FLANGE 50 A105 ANSI 150 6"	0.2	0.8	0.035	0.035	0.3	0.05	0.01	0.14	0.01	0.004	0.01	0.01	250 MPa 20% 30% 150
7	40	671 FLANGE 50 A105 ANSI 300 1 1/2"	0.2	0.8	0.035	0.035	0.3	0.05	0.01	0.14	0.01	0.004	0.01	0.01	250 MPa 20% 30% 150
8	50	671 FLANGE 50 A105 ANSI 240 6"	0.2	0.8	0.035	0.035	0.3	0.05	0.01	0.14	0.01	0.004	0.01	0.01	250 MPa 20% 30% 150
9	400	671 FLANGE 50 A105 ANSI 150 2 1/2" SCH STD	0.2	0.8	0.035	0.035	0.3	0.05	0.01	0.14	0.01	0.004	0.01	0.01	250 MPa 20% 30% 150
10	150	671 FLANGE 50 A105 ANSI 150 2 1/2" SCH XS	0.2	0.8	0.035	0.035	0.3	0.05	0.01	0.14	0.01	0.004	0.01	0.01	250 MPa 20% 30% 150
11	10	671 FLANGE 50 A105 ANSI 150 10" SCH STD	0.2	0.8	0.035	0.035	0.3	0.05	0.01	0.14	0.01	0.004	0.01	0.01	250 MPa 20% 30% 150
12	25	671 FLANGE 50 A105 ANSI 150 14" SCH STD	0.2	0.8	0.035	0.035	0.3	0.05	0.01	0.14	0.01	0.004	0.01	0.01	250 MPa 20% 30% 150

WE HEREBY CERTIFY THAT THE FLANGES LISTED ABOVE WERE MANUFACTURED IN STRICT CONFORMITY  
WITH ALL SPECIFICATIONS THE ABOVE RESULTS OF TENSILE STRENGTH TESTS AND CHEMICAL ANALYSIS  
ARE A TRUE AND CORRECT COPY OF THE TEST CERTIFICATE ISSUED BY THE MANUFACTURER OF THE MATERIAL. CANGZHOU HUAYE METAL PRODUCTS CO., LTD

PAGE 1 TOTAL 3 PAGES

Wang Bing Hua



Allegato n. : CTL1006S3-CTL1006S3



# CERTIFICATO DI COLLAUDO EN 10204/4(E) 3.1

Inspection certificate Num: 4318/ 07 Data: 27-03-2007  
Certificat de reception

Cliente GIORGI TUBI FLESSIBILI SRL  
Customer VIA PAPA GIOVANNI XXIII N. 51  
Client 20090 RODANO (MI) - ITALIA

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY CNV  
4350 9961/20003

Specifica/Specification/Requirements: ISO

Pos. Item Poste	Qta Qty Qté	Descrizione Description Description	Materiale Material Matériau	Colata Heat Coulée
1	50,00	CARTELLA 304L 273x3	304L/1.4306-07/Z2CN18-10/S32352/S30403	A0J1
2	20,00	CARTELLA 304L 323,8x3	304L/1.4306-07/Z2CN18-10/S32352/S30403	A0J1
3	20,00	CARTELLA 304L 273x3	304L/1.4306-07/Z2CN18-10/S32352/S30403	A0J1
4	80,00	CARTELLA 316L 194,3x3	316L/1.4404/Z2CND17-12-02/S32348/S31603	YU240578
5	100,00	CARTELLA 304L 76,1x2	304L/1.4306-07/Z2CN18-10/S32352/S30403	635981
6	100,00	CARTELLA 304L 60,3x2	304L/1.4306-07/Z2CN18-10/S32352/S30403	9CX5

Pos. Item Poste	Costruttore materia prima Manufacturer raw material Fabricant matière de base	Certificato Certificate Certificat	Specifiche materia prima Requirements material Spécification matière de base
1	ACERINOX S.A.	700656	ASTM A240 ED04, A490 ED04
2	ACERINOX S.A.	700656	ASTM A240 ED04, A490 ED04
3	ACERINOX S.A.	700656	ASTM A240 ED04, A490 ED04
4	YIEN UNITED STEEL CORP.	NACE276A60	EN 10028-7
5	UGINE E.A.L.Z.	800020988	A240
6	ACERINOX S.A.	700657	ASTM A240 ED04, A490 ED04, ASME SA240 SECI-A

Analisi chimica/Chemical composition/Analyse chimique												Caratteristiche meccaniche/Mechanical properties/Caractéristiques mécaniques			
Colata Heat Coulée	C %	Mn %	Si %	P %	S %	Cr %	Mo %	Ni %	Al %	Ti %	Cu %	SN Yield stress Limite élastique	RT Tensile strength Rupture	EL Elongation Allongement	HD Hardness Dureté
A0J1	0,023	1,733	0,361	0,027	0,002	18,170	0,102					324,14 N/mm <sup>2</sup>	629,09 N/mm <sup>2</sup>	53,44	85,00 HRB
A0J1	0,023	1,733	0,361	0,027	0,002	18,170	0,102					324,14 N/mm <sup>2</sup>	629,09 N/mm <sup>2</sup>	53,44	85,00 HRB
A0J1	0,023	1,733	0,361	0,027	0,002	18,170	0,102					324,14 N/mm <sup>2</sup>	629,09 N/mm <sup>2</sup>	53,44	85,00 HRB
YU240578	0,023	1,060	0,800	0,028	0,002	16,790	10,100	2,060				349,00 N/mm <sup>2</sup>	592,00 N/mm <sup>2</sup>	82,00	79,00 HRB
605981	0,020	1,490	0,400	0,028	0,003	18,150	0,720					322,00 MPa	627,00 MPa	66,00	72,00 HRB
9CX5	0,027	1,752	0,303	0,031	0,006	18,068	0,130					322,73 N/mm <sup>2</sup>	632,36 N/mm <sup>2</sup>	48,16	

Proc. di trasporto n. 639 Data 23/03/2007 Ordine n. 07006207/07029907/07037807  
Delivery note n. Date Order n.  
Bon de livraison n. Date Commande n.

Note  
Remarks

Il materiale è stato fornito in conformità ai requisiti dell'ordine.  
The material has been furnished in accordance with purchase order.  
Le matériel a été trouvé conforme aux exigences.  
Tutti i raccordi hanno superato con esito positivo il controllo dimensionale visivo.  
All fittings have passed visual and dimensional inspection.  
Tous les raccords ont superato positivamente le contrôle dimensionnel et visuel.

Treatment technical: solubilization at 980° ☐  
Heat treatment: annealed at ☐  
Treatments chemical: Hydrotemp ☐  
Proof of compliance A262 Part. E ☐ NACE 808175 a22 ☐  
Corrosion test A262 Part. E ☐  
Essais de corrosion A262 Part. E ☐  
Proof hydraulic ☐ Control ultrasonic ☐  
Hydro test ☐ Ultrasonic test ☐  
Epreuve élastique ☐  
Guaranteed characteristics (A 01 du 24.03.98)  
Caractéristiques garanties pour Z2CN18-10 et Z2CND17-13 ☐  
C ≤ 0,25 % Rm ≤ 780 N/mm<sup>2</sup>  
S ≤ 0,05 % Rm (A-2) ≤ 1050 N/mm<sup>2</sup>  
P ≤ 0,05 % A% sur 5,65 ± 0,075

MARCHIO DI FABBRICA:  
Trade mark



RESPONSABILE GARANZIA QUALITA'  
Quality assurance manager  
G. BERCELLES

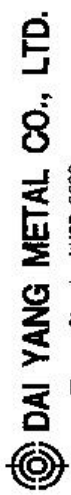
BERCELLES BERINOX SRL - Via per Carpiano, 24 - 20077 Melegnano (Mi) - Tel. (02) 98.23.10.72 ra Fax (02) 98.39.103



**MATERIAL CERTIFICATE POS. 20**  
**Code: P20.GY06P.AJ000**



Allegato n. : F5



Standard: KSD 3698

Cold Rolled Stainless Plates, Sheets and Strip

KS Approval Number: NO. 1783

EN 10204 3.1R

CUSTOMER: ACCIAI VENDER SPA

DESTINATION: LA SPEZIA PORT, ITALY

# MILL TEST CERTIFICATE

L/C NO.: TIT  
FINISH: BA

Coil No. (HEAT NO.)	Type (AISI)	SIZE (mm)	WEIGHT (kg)		Mechanical Properties				Chemical Composition (%)											
			Net	Gross	(0.2%) Y.S.	T.S. kg/mm <sup>2</sup>	EL. (%)	PH	C x100	SI x100	Mn x100	P x1000	S x1000	Ni x100	Cr x100	Mo x100	W x100			
001 0000000	316L	0.400X1000.000C	2,109	2,184	24	62	62	150	1.8	56	109	26	2	1045	1661	202	0.00550			
002 0000000	1.4304	0.400X1000.000C	2,111	2,186	24	62	62	150	1.8	56	109	26	2	1046	1661	202	0.00550			
003 0000000		0.400X1000.000C	1,968	2,070	24	62	62	150	1.8	56	109	26	2	1046	1661	202	0.00550			
004 0000000		0.400X1000.000C	3,748	3,812	24	62	62	150	1.8	56	109	26	2	1045	1661	202	0.00550			
005 0000000		0.400X1000.000C	3,728	3,804	24	62	62	150	1.8	56	109	26	2	1045	1661	202	0.00550			
006 0000000		0.400X1000.000C	3,736	3,810	24	62	62	150	1.8	56	109	26	2	1045	1661	202	0.00550			
007 0000000		0.400X1000.000C	3,613	3,692	24	62	62	150	1.8	56	109	26	2	1045	1661	202	0.00550			
008 0000000		0.400X1000.000C	3,925	3,108	24	62	62	150	1.8	56	109	26	2	1046	1661	202	0.00550			
009 0000000		0.400X1000.000C	3,922	3,110	24	62	62	150	1.8	56	109	26	2	1046	1661	202	0.00550			
010 0000000		0.500X1000.000C	2,232	2,310	25	63	61	165	2.0	65	112	24	2	1042	1690	202	0.00550			
011 0000000		0.500X1000.000C	2,240	2,318	25	63	61	165	2.0	65	112	24	2	1042	1690	202	0.00550			
012 0000000		0.500X1000.000C	2,244	2,322	25	63	61	165	2.0	65	112	24	2	1042	1690	202	0.00550			
013 0000000		0.500X1000.000C	2,481	2,542	24	62	62	160	1.8	56	109	26	2	1045	1681	202	0.00550			
014 0000000		0.500X1000.000C	2,471	2,532	24	62	62	160	1.8	56	109	26	2	1046	1681	202	0.00550			
015 0000000		0.500X1000.000C	2,485	2,556	24	62	62	160	1.8	56	109	26	2	1046	1681	202	0.00550			
016 0000000		0.500X1000.000C	2,477	2,538	24	62	62	160	1.8	56	109	26	2	1045	1681	202	0.00550			
017 0000000		0.500X1000.000C	2,519	2,572	24	62	62	160	1.8	56	109	26	2	1046	1681	202	0.00550			

Remarks :

WE CERTIFY THAT THE ABOVE MATERIALS HAS BEEN MADE IN  
ACCORDANCE WITH ASTM A 240/A 240M, EN 10088-2

Date: 2009/10/03

Quality Control Manager: [Signature]

O.C. Manager  
DAI YANG METAL CO., LTD.

TEL: (031) 494-0421 ~ 2

3.47(900mm X 1000mm)





Allegato n. : 854SO150150



**ORIGINAL**  
**PARAMOUNT FORGE™**  
Manufacturers of : FORGED FLANGES & FITTINGS.



**TEST CERTIFICATE**  
TYPE EN10204:2004 3.1

CUSTOMER: M/S. GIORGI SRL			P/F/CF: 7097		DATE: 23/10/2009	
P.O. NO & DATE: BY EMAIL			INSPECTION AGENCY: TUV (U) PVT.LTD.			
P.O.SR.NO.	DESCRIPTION	SIZE	DIMENSION	MATERIAL	HEAT NO.	QTY (Nos.)
45	SORF FLANGES 150#	DN 65	ASME B16.5 2003	ASTM A105 2005	0849	30
46	SORF FLANGES 150#	DN 80	ASME B16.5 2003	ASTM A105 2005	0888	70
47	SORF FLANGES 150#	DN 100	ASME B16.5 2003	ASTM A105 2005	0897	50
48	SORF FLANGES 150#	DN 150	ASME B16.5 2003	ASTM A105 2005	0854	200
49	SORF FLANGES 150#	DN 200	ASME B16.5 2003	ASTM A105 2005	0842	50

**CHEMICAL COMPOSITION**

HEAT NO.	C	MN	P	S	SI	CU	NI	CR	MO	V	N	TI	CEQ
0849	0.25	0.91	0.025	0.017	0.18	0.006	0.008	0.013	0.003	0.002	—	—	0.41
0888	0.22	0.93	0.026	0.014	0.19	0.012	0.035	0.054	0.013	0.009	—	—	0.39
0897	0.22	0.99	0.030	0.016	0.25	0.020	0.019	0.025	0.005	0.003	—	—	0.39
0854	0.19	0.69	0.026	0.018	0.20	0.004	0.008	0.012	0.007	0.002	—	—	0.31
0842	0.19	0.93	0.017	0.022	0.23	0.015	0.002	0.011	0.011	0.002	—	—	0.35

**PHYSICAL PROPERTIES**

HEAT NO.	UTS	Y.S	%EL.	RED. IN	HARDNESS	CHARPY V IMPACT TEST				
	MPa	MPa	—	AREA %	HR15	TEMP.	1	2	3	AVG.
0849	545.14	285.60	32.00	53.41	159	—	—	—	—	—
0888	527.39	297.72	35.42	62.45	161	—	—	—	—	—
0897	522.95	290.31	32.50	32.70	159	—	—	—	—	—
0854	495.22	275.99	38.80	51.27	144	—	—	—	—	—
0842	532.39	277.94	28.40	52.56	162	—	—	—	—	—

HEAT NO.	HEAT TREATMENT	HEAT TREATMENT TEMP.	LAB REF NO.
0849	NORMALISED	910°C	PF/11/09 & 09/02/0192 B/B
0888	NORMALISED	910°C	PF/26/09 & 09/02/3910
0897	NORMALISED	910°C	PF/13/09 & 09/02/10459 B/B
0854	NORMALISED	910°C	PF/11/09 & 09/02/0959 A/C
0842	NORMALISED	910°C	PF/01/09 & 09/02/1082 E/E

REMARKS: SATISFACTORY.

 Reviewed Witnessed	PARAMOUNT FORGE UNION BANK OF INDIA No C 766545 By: Date: 23/10/2009
	 766545

We Certify that all items herein conform to the applicable standards and customer requirements

Registered Office : 3, 'Guru Himmat Bldg', 140, Dr. Mascarenhas Road, Mazgaon, Mumbai-400 010.  
☎ : 91-22-2378 0007 / 6657 0979 • Fax : 91-22-2373 2857

Factory : 99/100, 260/263, Jawahar Industrial Estate, Kamothe - 410 209, Parvel, (Dist. Raigadh)  
☎ : 91-22-2742 0301, 2742 5058 • Fax : 91-22-2742 0802  
✉ : pforge@bom5.vsnl.net.in • Website : www.pforgeindia.com

QA/QR/08

1/1/08

REV:01



Allegato n. : CTL1506S3-CTL1506S3

## INOX LAGHI SRL

Certificato di collaudo secondo la norma EN 10204 3.1.B (Ex DIN 50049 3.1.B)  
Inspection certificate according to standard EN 10204 3.1.B (Ex DIN 50049 3.1.B)

Certificato	<b>18521</b>	<b>21/09/2010</b>	
Telefono/Telephone	0295321305		IL408
Fax	0295321318		
Riferimento Cliente	10082310		GIORGI srl
N°DDT e data	3558	20/09/2010	
N°FTV e data			Via Papa Giovanni XXIII, 51 - 20090 - Rodano - MI

Si certifica che i materiali relativi al Vs. Ordine sono stati fabbricati, controllati e risultano conformi all'ordine e alle specifiche richieste  
We certify the material referring to your order has been made, tested and it is in conformity to the order and to the chemical composition you required

Item	Colata/Heat	Grado/Grade	Q.tà/Q.ty	Descrizione/Description
01	838019	EN 1.4307	50	Cartella a saldare 39,7X2 dim UNI 6090
02	621520	EN 1.4307	20	Cartella a saldare 48,3X3 dim UNI 6090
03	345799	EN 1.4307	10	Cartella a saldare 188,3X3 dim UNI 6090
04	010088	EN 1.4404	20	Cartella a saldare 188,3X3 dim UNI 6090
05	005519	EN 1.4307	20	Cartella a saldare 219,1X3 dim UNI 6090

### Analisi Chimica - Chemical Composition

Item	Colata/Heat	C	Si	Mn	P	S	Cr	Ni	Mo	N
01	838019	0,022	0,45	1,41	0,031	0,004	18,02	8,01		
02	621520	0,025	0,328	1,401	0,032	0,004	18,209	8,066		
03	345799	0,028	0,42	1,5	0,029	0,003	18,1	8,18	0,066	0,0624
04	010088	0,023	0,35	1,2	0,033	0,004	16,81	10,02	2,03	0,041
05	005519	0,015	0,24	1,45	0,034	0,002	18,3	8,03		0,048

### Caratteristiche Meccaniche - Mechanical Properties

Item	Colata/Heat	Yield P. 0,2% N/mm <sup>2</sup>	Yield P. 1% N/mm <sup>2</sup>	Tensile ST. N/mm <sup>2</sup>	Elongat. %	Hardness
01	838019	328		635	49	75
02	621520	337		844	51	84
03	345799	305	342	655	58	84,2
04	010088	311		591	55	76
05	005519	315		617	53	80

Tutti gli articoli sopra riportati hanno superato con esito positivo il controllo dimensionale e visivo. I dati delle analisi chimiche e delle prove meccaniche corrispondono fedelmente al certificato inviato dal fabbricante del materiale base e/o dal laboratorio che ha effettuato le prove.  
All the items passed with positive results the visual and dimensional inspection. Chemical composition and mechanical characteristics correspond to the manufacturer's certificate and/or to the certificate issued from testing laboratories.

EN 1.4301=AISI 304 EN 1.4305=AISI 304L EN 1.4307=AISI 304 EN 1.4401=AISI 316 EN 1.4404=AISI 316L

Servizio Assicurazione Qualità  
Marco Fossati

Pagina 1 di 1

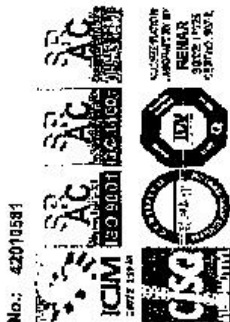
Inox Laghi srl - Via Molinello, 52 - 21048 Sobiate Arno - Varese - Italy - Tel. 0331.780011 Fax 0331.985700



**MATERIAL CERTIFICATE POS. 30**  
**Code: P20.GY10P.AG000**



Allegato n. : 12.7



# INSPECTION CERTIFICATE 3.1 (according to DIN EN 10204, type 3.1)



Customer : ACCIAI VENDER S.P.A.  
Customer Ord.No.: 200171533  
Product : Coils 1+2+1 Pieces  
Steel grade: 1.45412B; AISI 321/2B → kg-107C

Manufacturer:  
OTELINIX  
RO-130087 Targoviste  
Fax:40-245-217768

Making process : E  
Specification: AD2000-Y42; AD2000-W10; PED97/23/EC; EN 10088-2/05; EN 10028-7/03; ASTM A 240M/09; ASME SA 240M/7

Coil No.	Heat No.	Weight (kg)	Chemical analysis (%)									
			C	Mn	Si	P	S	Cr	Ni	Mo	Ti	N
CH1524-1003722A	87185	4465.000	0.040	1.250	0.420	0.034	0.001	17.300	9.100	0.340	0.011	0.010
CH1525-100332P	87876	11650.000	0.040	1.260	0.450	0.031	0.001	17.100	9.100	0.380	0.011	0.010
CH1538-100337C	87814	4735.000	0.034	1.370	0.400	0.031	0.001	17.100	9.100	0.350	0.010	0.010

Surface and dimensional control, material identity test, intercrystalline corrosion acc. to DIN EN ISO 3651-2: Q.K.

Heat treatment 1050 °C/ Air cooling

Making: Producer Trade Mark, Material, Heat No., Coil No., Workinspector stamp & name:

Extent of delivery			Test Result									
Coil No.	Dimension (mm)	Pallet No.	Test No.	P 58 (EN 10204)	TS 40 (EN 10204)	TS 40 (EN 10204)	TS 40 (EN 10204)	TS 40 (EN 10204)	TS 40 (EN 10204)	TS 40 (EN 10204)	TS 40 (EN 10204)	TS 40 (EN 10204)
CH1524-1003722A	0.8 X 1250 X 118	42010381	789	1	1	1	1	1	1	1	1	1
CH1525-100332P	0.8 X 1250 X 118	42010381	770	1	1	1	1	1	1	1	1	1
CH1538-100337C	0.8 X 1250 X 118	42010381	825	1	1	1	1	1	1	1	1	1

Dispense of counter: January 16, 1998. B7C-CF-001-2 Targoviste, 07 Sep 2010

R. E. ns. dlt n°223 del febbraio 1, WORK INSPECTOR CUTA VICTORIA







Allegato n. : CTL2504S3-CTL2504



# CERTIFICATO DI COLLAUDO EN 10204/4(E) 3.1

Inspection certificate  
Certificat de réception Num: 5274/ 06 Data: 15-05-2006

Cliente: GIORGI TUBI FLESSIBILI SRL  
Customer: VIA PAPA GIOVANNI XXIII N. 51  
Client: 20090 RODANO (MI) - ITALIA

VR  
VERIFICAZIONE  
RISULTATO  
+ ISO 9001:2000

## Specifiche/Specifications/Requirements: ISO

Pos. n°	Qta Qty	Descrizione Description	Materiale Matériau	Colata Casting
1 2	10,00	CARTELLA 304L 273x2	304L 1.4308 (316/316L) 10.557359-530453	0560774

Pos. n°	Descrizione Description	Certificato Certificat	Specifiche materia prima Spécifications matière de base
1 2	THYSSEN EDELSTAHLWERKE AG	05/03/65	DIN 17443 B 1.4308 (316/316L) 10.557359-530453

Analisi chimica/Chemical composition/Analyse chimique											Caratteristiche meccaniche/Mechanical properties/Caractéristiques mécaniques			
Colata Casting	C %	Mn %	Si %	P %	S %	Cr %	Ni %	Mo %	Ti %	Cu %	Al %	Snervamento S Elongation Elongation	Rottura R Tensile strength Tensile strength	Allungamento A Elongation Elongation
0560774	0.025	1.47%	0.44%	0.026	0.001	18.160	8.080					267.00 N/mm <sup>2</sup>	559.00 N/mm <sup>2</sup>	34.50

Doc. di trasporto n. 1264 Data 15/05/2006 Ordine n. 270  
Delivery note n. Date Order n.  
Bon de livraison n. Date Commande n.

Nota  
Remarks

Il materiale è stato fornito in conformità ai requisiti dell'ordine.  
The material has been furnished in accordance with purchase order.  
Le matériel a été fourni conforme aux exigences.

Tutti i recordi hanno superato con esito positivo il controllo dimensionale visivo.  
All findings have passed visual and dimensional inspection.

Tous les records ont supéré positivement le contrôle dimensionnel et visuel.

This material is provided in accordance with the requirements of the order. The material has been furnished in accordance with purchase order. The material has been furnished in accordance with purchase order. The material has been furnished in accordance with purchase order.

MARCHIO DI FABBRICA  
Trade mark



RESPONSABILE GARANZIA QUALITA'  
Quality assurance manager  
G. BERCELLES

BERCELLES BERINOX SRL - Via per Carpiano, 24 - 20077 Melegnano (MI) - Tel.(02) 94 23 10.72 ra Fax (02) 94.39.103



**MATERIAL CERTIFICATE POS. 40**  
**Code: P20.GY06P.AG000**



Allegato n. : CTL1504S3-CTL1504S3



Quality Management System  
certified by LRQA  
N. LRC 6008072 / QMS

# CERTIFICATO DI COLLAUDO EN 10204 3.1

Inspection certificate Num: 12668/ 10 Data: 04/11/2010

Ciliente GIORGI SRL  
Customer VIA PAPA GIOVANNI XXIII N. 51  
Client 20090 RODANO (MI) -

Specifica prodotto/Produit specification/Spécification du produit: EN 10921

Pos Item Poste	Qty Qty Qte	Descrizione e dimensioni Description and size Désignation et dimension	Grado acciaio Grade Nuance	Colata Heat Coudre
10 20 30	30,00 4,00 16,00	CARTELLA 304L 166.3x3 CARTELLA 304L 139.7x3 CARTELLA 304L 139.7x3	1.4301/304L 4307/304L 1.4301/304L 4307/304L 1.4301/304L 4307/304L	0589913 019501 0589913
Pos Item Poste	Costruttore materia prima Manufacturer raw material Fabricant matière de base	Certificato Certificate Certificat	Specifica materia prima Requirement material Spécification matière de base	
10 20 30	THYSSENKRUPP ACCIAI SPEC. TERNI ARCELORMITTAL THYSSENKRUPP ACCIAI SPEC. TERNI	1070279 10K0028649 1070270	EN 10028-7 EN 10088-2 ASTM A240 EN 10028-7/06 EN 10088-2/06 ASTM A240M-06 EN 10028-7 EN 10088-2 ASTM A240	

Analisi chimica/Chemical composition/Analyse chimique												Caratteristiche meccaniche/Mechanical properties/Caractéristiques mécaniques				
Colata Heat Coudre	C %	Mn %	Si %	P %	S %	Cr %	Ni %	Mo %	Ti %	Cu %	N %	Sherv. Rp1,2 Yield Strength Unità elastiche	Rottura Rm Tensile strength Rupture	Allung. A50mm Elongation	Durezza Hardness Dureté	
0589913	0,018	1,710	0,360	0,030	0,001	18,090	8,030				0,065	334,00N/mm²	612,00N/mm²	51,80	83,00HB	
019501	0,024	1,340	0,410	0,032	0,001	18,090	8,020				0,065	316,00MPa	628,00MPa	57,00	79,00HRB	
0509913	0,018	1,710	0,360	0,030	0,001	18,090	8,030				0,065	334,00N/mm²	612,00N/mm²	51,80	83,00HB	

L'analisi chimica e le caratteristiche meccaniche sono conformi al certificato originale rilasciato dal fabbricante di materia prima.  
The chemical analysis and mechanical properties fully comply with the certificate issued by the manufacturer of the basic material.  
L'analyse chimique et les caractéristiques mécaniques sont conformes au certificat émis par le producteur de la matière première.

Doc. di trasporto n. 2670 Data 03/11/2010 Ordine n. 10089310 - 10092410  
Delivery note n. Date Order n.  
Bon de livraison n. Date Commande n.

Si attesta che i materiali spediti sono conformi ai requisiti dell'ordine.  
We certify that delivered products comply with the customer's requirement.  
Nous certifions que les produits livrés sont conformes aux spécifications de la commande.  
Note / Remarque / Remarques

Test superati con esito positivo:  
Test passed successfully / Test passé avec succès  
Dimensional ☒  
Visual ☒  
Test aggiuntivi richiesti nell'ordine:  
Additional tests required in order  
Tests supplémentaires requis dans la commande

I certificati sono conservati nel nostro archivio.  
The certificates are kept in our archive.  
Les certificats sont conservés dans nos archives.

Il materiale è conforme alle specifiche di prodotto dichiarate.  
The material corresponds to the product's specification declared.  
Le matériel est conforme aux spécifications du produit déclaré.  
Per dimensioni diverse alle specifiche è garantita la conformità al ns catalogo.  
Size different from the specifications are guaranteed to be in compliance with our catalogue.  
Les dimensions différentes de la spécification sont conformes à notre catalogue.

MARCHIO DI FABBRICA:  
Trade mark  
Marque du producteur



RESPONSABILE GARANZIA QUALITA'  
Quality assurance manager  
Contrôle de la qualité  
A. FARINOLA



Questo certificato costruito da un processo di trattamento del dati informativi è replicabile senza firma in originale. La sua autenticità è garantita dal processo di costruzione e controllo degli archivi in oggetto e dalla garanzia di conformità alle specifiche di prodotto dichiarate. / This certificate was built from a data processing system and can be applied without an original signature. Its reliability is ensured by the process of construction and inspection of the library mentioned and guaranteed with the requirements of the system. / Ce certificat a été conçu à partir d'un procédé de traitement des données et peut être appliqué sans signature originale. Son exactitude est garantie par le processus de construction et d'inspection des archives en question et les normes de conformité aux spécifications du système.  
BERCELLES BERINOX SRL - Via per Carpiano, 24 - 20077 Melegnano (MI) - Tel (02) 98.23.10.72 re Fax (02) 98.39.103





Allegato n. : E1.19



No.: 42003755

# INSPECTION CERTIFICATE 3.1

(according to DIN EN 10204, type 3.1)



A member of  
**SANSEUNG**  
Corporation

Customer : ACCIAI VENDER S.P.A.  
Customer Ord.No.: 2000129796  
Product : Coils 3 Pieces  
Steel grade: 1.45412B; AISI 321/2B

Manufacturer:  
**OTELINIX**  
RO-130037 Targoviste  
Fax: +40-245-217758

Melting process : E

Specification: AD2000-W2; AD2000-W10; PED9723/EC; EN 10085-2/05; EN 10028-7/00; ASTM A 240M/07; ASME SA 240/05

Specification: AD2000-W2, AD2000-W10, PED9723EC, EN 10026-7/00, AS 1017 A 2-00001																	
Coil No.			Heat No.	Weight (kg)	Std	Chemical analysis (%)											
						C	Mn	Si	P	S	Cr	Ni	Mo	Ti	N	Cu	Al
H1248-90/65P			0420446	12925,000	EN	max 0.08	max 2.0	max 1.0	max 0.045	max 0.015	17 C-19.0	9.0-12.0		max 0.7			
						0.027	0.920	0.75C	0.026	0.001	17.450	9.030	0.240	0.290	0.018	XXXX	XXXX
AS 1017 A 2-00001																	

Surface and dimensional control, material identity test, intercrystalline corrosion acc. to DIN EN ISO 9851-2: O.K.

Heat treatment 1080 °C/ Air cooling

Marking: Producer, Trade Mark, Material, Heat No., Coil No., Work/Inspector stamp & name

Extent of delivery			Test Result									
Coil No.	Dimension (mm)	Pallet No.	Packing List No.	Test No.	Test Result	TS	Elong. (A50%)	Elong. (A80%)	Elong. (A10%)	HV	Bending Test	Scan Size
1H1248-90.165P	0.40 X 1000 SRA	1200017628; 1000017630; 1200017631	42003755	43	EN	520.720	61.5	XXXX	XXXX	XXXX	XXXX	XXXX
				44	T	243.0	64.0	XXXX	XXXX	XXXX	XXXX	XXXX

T=Top B=Bottom Sample direction: Transversal

BTC - CF - 001 - 2

Targoviste, 04 Nov 2009

Discharge of countersing, January 16, 1998.

WORK INSPECTOR

SOKA ANISCARA

ET3009-20-22



Allegato n. : 854SO150150



**ORIGINAL**  
**PARAMOUNT FORGE™**  
Manufacturers of : FORGED FLANGES & FITTINGS.

**PF**

**TEST CERTIFICATE**  
TYPE: EN10204-2004 3.1

CUSTOMER: M/S. GIORGI SRL				P/TC: 7097		DATE: 23/10/2009	
P.O. NO & DATE: BY EMAIL				INSPECTION AGENCY: TUV (S) PVT. LTD.			
F.O.S.R.NO.	DESCRIPTION	SIZE	DIMENSION	MATERIAL	HEAT NO.	QTY.(Nos.)	
45	SORT FLANGES 150#	DN 65	ASME B16.5 2003	ASTM A105 2005	0849	50	
46	SORT FLANGES 150#	DN 80	ASME B16.5 2003	ASTM A105 2005	0888	70	
47	SORT FLANGES 150#	DN 100	ASME B16.5 2003	ASTM A105 2005	0897	50	
48	SORT FLANGES 150#	DN 150	ASME B16.5 2003	ASTM A105 2005	0854	200	
49	SORT FLANGES 150#	DN 200	ASME B16.5 2003	ASTM A105 2005	0842	50	

**CHEMICAL COMPOSITION**

HEAT NO.	C	MN	P	S	SI	CU	NI	CR	MO	V	N	TI	CEO
0849	0.25	0.91	0.025	0.017	0.18	0.006	0.008	0.013	0.005	0.002	--	--	0.41
0888	0.22	0.93	0.026	0.014	0.19	0.017	0.035	0.054	0.013	0.009	--	--	0.39
0897	0.22	0.99	0.020	0.016	0.25	0.020	0.019	0.025	0.002	0.003	--	--	0.39
0854	0.19	0.69	0.026	0.018	0.20	0.004	0.008	0.012	0.007	0.002	--	--	0.31
0842	0.19	0.93	0.017	0.022	0.23	0.015	0.002	0.011	0.011	0.002	--	--	0.35

**PHYSICAL PROPERTIES**

HEAT NO.	UTS	Y.S	%EL	RED. IN	HARDNESS	CHARPY V IMPACT TEST				
						TEMP.	1	2	3	AVG.
0849	545.14	286.60	32.00	33.41	159	--	--	--	--	--
0888	527.39	297.72	35.42	62.45	161	--	--	--	--	--
0897	522.95	280.31	32.60	52.76	159	--	--	--	--	--
0854	495.22	275.99	30.80	51.27	144	--	--	--	--	--
0842	532.39	277.94	28.40	52.30	162	--	--	--	--	--

HEAT NO.	HEAT TREATMENT	HEAT TREATMENT TEMP.	LAB REF NO.
0849	NORMALISED	910°C	PT141/09 & 09/02/0492 B/1
0888	NORMALISED	910°C	PT1263/09 & 09/02/3910
0897	NORMALISED	910°C	PT133/09 & 09/02/10459 B/1
0854	NORMALISED	910°C	PT119/09 & 09/02/0959 A/C
0842	NORMALISED	910°C	PT91/09 & 09/02/11082 E/F

REMARKS: SATISFACTORY.



Reviewed  
Witnessed

UNION BANK OF INDIA  
No C

7665115

By: [Signature]

We Certify that all items herein conform to the applicable standards and customer requirements

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☎ : 91-22-2378 0007 / 6657 0979 ☎ Fax : 91-22-2373 2657

Factory : 99/100, 260/263, Jawahar Industrial Estate, Kamothe - 410 209, Panvel, (Dist. Raigadh)  
☎ : 91-22-2742 0301, 2742 5058 ☎ Fax : 91-22-2742 0802

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QA/QR/08

1/1/08

REV:01