OFFICINE SASPE S.R.L.

Via Senato, 10 20020 ARESE (MI) Date: 26.11.10

Doc. N° Cover 62F6A

INSPECTION BOOK N° 62F6A

WORKSHOP JOB N°: 1E35

CUSTOMER: BALLESTRA S.p.A. Milano

JOB : 1E35

ORDER N°. : 101723

Item: 62F6A

Description: SLURRY FEEDING FILTER

OFFICINE SASPE S.R.L. E.Accomazzi DESMET CALLESTRA S.p.A.
Aspector
Galti Davide

OFFICINE SASPE S.R.L. Via Senato, 10 20020 ARESE (MI)

Date : 26.11.10 Doc. No.:: 62F6A

WHITE PICKLING REPORT

(For apparatus in Stainless steel with parts in Carbon steel)

QUALITY CONTROL PLAN No.: 62F6A

Customer	BALLESTRA S.P.A.
Customer Order No.	101723
Job	1E35
Item	62F6A
Description	SLURRY FEEDING FILTER
Data sheet	1E35.35.1140
Constructive Dwg.	SB.PRS.00307

Il decapaggio esterno è stato eseguito in accordo alla specifica Ballestra No SB_ATI_SP002/4 utilizzando pasta decapante DECABLITZ DR5 per un' ora e risciacquando accuratamente con acqua potabile.

The external white pickling treatment has been performed, according to the Ballestra's specification No. SB_ATI_SP002/4 with paste DECABLITZ DR5 for one hour and thoroughly rinsed with water of drinking quality.

Il ciclo di verniciatura su superfici esterne è stato eseguito in accordo alla specifica Ballestra No. SB_ATI_SP002/4 utilizzando antiruggine COSMALVER TIPO BW0136 The exernal painting cycle has been performed, according to the Ballestra's specification No. SB_ATI_SP002/4 with antirust COSMALVER TYPE 0136

Le parti interne sono state pulite per mezzo di solvente EMULCLEAR M.

The internal parts have been cleaned by means of solvent EMULCLEAR M.

OFFICINE SASPE S.R.L. - ARESE (MI)

CUSTOMER INSPECTOR

DESMET FALLESTRA S.p.A.

Date: 26.11.10

OFFICINE SASPE S.R.L. Via Senato, 10 20020 ARESE (MI) Doc. No. : 62F6A

HYDROSTATIC TEST REPORT

Customer	BALLESTRA S.P.A.
Customer Order No.	101723
Job	1E35
Item	62F6A
Description	SLURRY FEEDING FILTER
Data sheet	1E35.35.1140
Constructive Dwg.	SB.PRS.00307

Pressure (alternatively) on :

TIME HELD (hours)

SHELL SIDE	bar(g)	1,5
TUBE SIDE	bar(g)	
JACKET	bar(g)	1,5
COIL	bar(g)	

Pressure gauges serial N° EN 840 - EN 720

Dial range: 0 - 6 0 - 6

Vessel position: HORIZONTAL

Dichiariamo che la prova idraulica è stata eseguita utilizzando acqua potabile alle pressioni e tempi indicati in tabella ed ha avuto esito positivo.

We certify that the hydrostatic test with water of drinking quality has been performed, at the conditions and times above indicated, with satisfactory result.

OFFICINE SASPE S.R.L.-ARESE (MI)

CUSTOMER INSPECTOR

DESIME BALLESTRA S.p.A.

only jooket

OFFICINE SASPE S.R.L.

Via Senato, 10 20020 ARESE (MI)

Workshop Job n° 1E35

Date

Data

Rev.

REV.

Issued by

Emesso da

Checked by

Controllato da

N°. C0 495/10

CERTIFICATO CONTROLLO DIMENSIONALE

DIMENSIONAL TEST REPORT

CUSTOMER: BALLESTRA S.p. A.

JOB Nº 1E35

Purchase Order N°. 101723

Doc. No. Sheet 1 of 1 Rev. 0

ITEM:	62F6A	
Description:		SLURRY FEEDING FILTER
DATA SHEET N°.		1E35.35.1140
Constructive Dwg. N°.	SB.PRS.00307	· ·

SI CERTÍFICA CHE L'APPARECCHIO E' STATO SOTTOPOSTO A CONTROLLO DIMENSIONALE IN ACCORDO AI DISEGNI :

N° 1E35.35.1140 BALLESTRA S.p.A. : DATA SHEET BALLESTRA S.p.A.: COSTRUTTIVO Nº SB.PRS.00307

ED ALLE SPECIFICHE RICHIAMATE SUGLI STESSI

TUTTE LE MISURAZIONI EFFETTUATE SONO CONFORMI **ALLE TOLLERANZE INDICATE A DISEGNO** ED ALLE SPECIFICHE IN ESSI RICHIAMATE. E' STATO ESEGUITO CONTROLLO SPESSORI

WE CERTIFY THAT THE ITEM HAS BEEN CONTROLLED DIMENSIONALLY ACCORDING TO DRAWINGS:

BALLESTRA S.p.A. : DATA SHEET N° 1E35.35.1140 BALLESTRA S.p.A.: CONSTRUCTIVE N° SB.PRS.00307

> AND TO THE SPECIFICATIONS NOTED IN THE ABOVE MENTIONED DRAWINGS.

ALL THE MEASUREMENTS PERFORMED RESULT WITHIN **DRAWINGS TOLERANCES** AND TO THE SPECIFICATIONS NOTED IN THE ABOVE MENTIONED DRAWINGS. THICKNESS CHECK HAS BEEN PERFORMED

pector

Descrizione

RISULTATO / Result: SODDISFACENTE / Satisfactory E.Accomazzi 1 26.11.10 Off.Saspe SrL 0 Date Description Date

Data

Approved by

Approvato da

Data

PRODOTTI INDUSTRIALI S.P.A. STAMPAGGIO A CALDO DI ACCIAI COMUNI - LEGATI E INOSSIDABILI METALFAR

SALA PROVE E ANALISI MATERIALI / MATERIAL TEST DEPARTMENT

23861 CESANA BRIANZA (LC) - Ita quality.mif@farmas.com Tel. +39 031,655441 Fax +39 031,655149

SEDE AMMINISTRATIVA E STABILIMENTO:

CERTIFICATO DI CC.

FERRAMENTA INDUSTRIALE BONACINA SRL WITH QUALITY MANAGEMENT

AUDO SECONDO EN 10204 - 3.1 INSPECTION CERTIFICATE Certif. n. 779

/ Dated 26.02.2010 Del / Dated 26.02.2010

Fattura / Invoice n.

Del / Dated

Pag. 7 - 10

80 VIALE EUROPA, 2G - FRAZ. CURNASCO 24048 TREVIOLO SYSTEM CERTIFIED BY DNV = ISO 9001; 2000 =

SNERVAMENTO VISUAL & DIMENS. SATISFACTORY SATISFACTORY SATISFACTORY SATISFACTORY SATISFACTORY YIELD POINT N/mm2 >=1,0% MANUFACTURER"S SYMBOL SATISFACTORY SATISFACTORY OTHER ELEMENTS ALTRI ELEMENTI 0,0 0,0 0000 MARCHIO PRODUZIONE ORIGINE ORIGIN EUROPE EUROPE EUROPE EUROPE EUROPE EUROPE EUROPE MFF =0 5=D FORMA SHAPE ELECTRIC FURNACE ELECTRIC FURNACE ELECTRIC FURNACE ELECTRIC FURNACE **ELECTRIC FURNACE** ELECTRIC FURNACE **ELECTRIC FURNACE** 0,420 0,406 0,409 0,393 0.416 0,401 C.E.% JIM. ACCORDANCE TO 98 84 82 83 83 FURNACE ASME/ANSI B16.5 RESILIENZA / IMPACT TEST - JOULE/cm 0,028 800'0 0,028 0,030 88 90 90 **86 86** 0,005 0,005 0,008 ₽% ₽% ENTE UFFICIALE DI COLLAUDO Certificato generato da un sistema informatico secondo la norma EN10204, valido senza firma - This certificate has been generated by computer and need not to be signed for validity acc. to EN10204 INSPECTION AUTHORITY 86 83 83 84 88 000'0 000'0 000'0 0000 000'0 000'0 0000 %N 222222 ပ္ 0,002 0,003 0,001 0,002 0,001 0,001 %qN TIPO / TYPE 10x10mn \$ \$ \$ \$ \$ \$ 0,000 0,002 0,002 0.003 0,003 0,020 % 0,180 0,180 0,170 0,170 0,170 0,160 FLATTENING TEST NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR NORMALIZED AT 920 C - COOLED IN STILL AIR JORMALIZED AT 920 C - COOLED IN STILL AIR Cu% SCHIACCIAM. TRATTAMENTO TERMICO **DUALITY CONTROL DEPARTEMENT** 0'0 0'0 UFFICIO CONTROLLO QUALITA' HEAT TREATMENT 900'0 0,010 0,018 0,008 0,002 0,007 %!⊥ BEND TEST DESCRIZIONE DESCRIPTION PIEGA 0,020 0,010 0,030 0,010 0,020 0,010 0,010 Wo% 159,0 - 163,0 159,0 - 163,0 159,0 - 163,0 163,0 - 165,0 159,0 - 163,0 159,0 - 163,0 163,0 - 165,0 0,050 0,110 0,040 0,050 0,080 HARDNESS Hb **DUREZZA HD** % Z A105 A105 A105 A105 A105 0,140 060'0 0,160 0,100 0,150 **%** REDUCT. OF AREA CONTRAZIONE 58,0 0'09 0'09 59,0 S/O 300 RF 1.1/2" 0,015 0,013 0,012 0.012 0,013 0,010 0,011 S/O 300 RF 12" S/O 150 RF 12" S/O 300 RF 8" S/O 150 RF 6" S/O 150 RF 8" S/O 300 RF 2" 8 0,015 0,003 0,014 0,015 0,013 0,012 ALLUNGAMENTO 0,011 ELONGATION %s 30'0 30'0 32,0 30,0 33,0 30,0 32,0 20,00 10,00 10,00 65,00 5,00 20,00 20,00 1,150 0,960 1,030 0,970 0.990 Mn% **TENSILE STRENGHT** MATERIAL IN ACCORDANCE TO MATERIALE IN ACCORDO A ROTTURA N/mm2 >= 528.0 529,0 536,0 526,0 540,0 538,0 529,0 0,180 0,270 0,220 0,250 0,230 0,230 %is ASTM/ASME'A 105/SA 105 M - 05 ASTM/ASME A 105/SA 105 M - 05 ASTMIASME A 105/SA 105 M - 05 ASTM/ASME A 105/SA 105 M - 05 0,200 0,180 0,195 0,200 0,190 0,200 స్టి **SNERVAMENTO** YIELD POINT V/mm2 >≈0,2% 338,0 344,0 330,0 333,0 347,0 372,0 370,0 A 1 Feet 025-201288 1 00727710162 (69) 070 THE WEST OF STREET REINTEGRO DEPOSITO VS.ORDINE YOUR REF. LUNG,/LENG. PROVETTA / TEST SPECIM. MATERIALE 50,80 50,80 50,80 50,80 50,80 MATERIAL ASTM A105 ASTM A105 ASTM A105 ASTM A105 ASTM A105 **ASTM A105 ASTM A105** BEZ./SECT. 126,60 126,60 126,60 126,60 126,60 126,60 126.60 Chad. File . . . THE OWNER 13 613 POS. POS. POS. POS. 0049 0020 0049 0046 0048 0044 0045 0046 0048 0020 0048 0049 0020 0051 0046 0049 0044 0045 0046 0048 0020 0051 0051 0051 39/35466 39/35466 09/35285 09/35285 08/32860 39/35285 38/32860 39/33805 08/32860 39/35466 08/32860 39/35466 9/33805 39/35285 333805 08/38247 39/33805 COLATA 08/38247 COLATA 38/38247 38/38247 COLATA COLATA HEAT HEAT HEAT HEAT 548727 548727 548727 548727 74401 74401 74401 COD, COL. HEAT CODE HEAT CODE HEAT CODE HEAT CODE COD. COL. COD. COL. COD. COL. NOTES

METALFAR PRODOTTI INDUSTRIALI S.P.A. STAMPAGGIO A CALDO DI ACCIAI COMUNI - LEGATI E INOSSIDABILI

23861 CESANA BRIANZA (LC) - Italy Via G. Parini. 28 quality.mff@farmas.com Tel. +39 031.655441 Fax +39 031.655149

SEDE AMMINISTRATIVA E STABILIMENTO:

COMPANY
WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= ISO 9001; 2000 =

OUen CERTIFICATO DI COLLAUDO SECONDO EN 10204 - 3.1 INSPECTION CERTIFICATE Fattura / Invoice n. Certif. n. 779 DDT / Del Note n. 1049

// Dated 26.02.2010 Del / Dated 26.02.2010

FERRAMENTA INDUSTRIALE BONACINA SRI. VIALE EUROPA, 2G - FRAZ. CURNASCO 24048 TREVIOLO

BG

Del / Dated

TROHER OF THE PART	COD. COL. HEAT CODE	COLATA	POS.	N	VS.ORDINE YOUR REF.			Q.TA' Q.TY				DESCI	DESCRIZIONE DESCRIPTION					DIM. AC	DIM.IN ACC. A	A CE TO	VISIVO E DMENS.
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METALFAR PRODOTTI INDUSTRIALI S.P.A. STAMPAGGIO A CALDO DI ACCIAI COMUNI - LEGATI E INOSSIDABILI

23861 CESANA BRIANZA (LC) - Ital SEDE AMMINISTRATIVA E STABILIMENTO: Via G. Parini, 28 Tel. +39 031.655441 Fax +39 031.655149 quality.mff@farmas.com

SYSTEM CERTIFIED BY DNV = ISO 9001 : 2000 =

WITH QUALITY MANAGEMENT COMPANY

ンじょう CERTIFICATO DI COL UDO SECONDO EN 10204 - 3.1 INSPECTION CERTIFICATE DDT / Del Note n. 1049 Del / Dated 26.02.2010

BG IT FERRAMENTA INDUSTRIALE BONACINA SRL VIALE EUROPA, 2G - FRAZ. CURNASCO 24048 TREVIOLO

SALA PROVE E ANALISI MATERIAL / MATERIAL TEST DEPARTMENT

Certificato generato da un sistema informatico secondo la norma EN10204, valido senza firma - This certificate has been generated by computer and need not to be signed for validity acc. to EN10204

Fattura / Invoice n.

Pag. 5 - 10

COD. COL.	COLATA	POS.		VS.ORDINE			Q.TA'				DESCRIZIONE	ZIONE				2	DIM.IN ACC. A	ACC. A		VISIVO E DMENS.
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	09/7/048	0036	REINTEGRO DEPOSITO	DEPOSITO			50,00	S/O 150 P	50 KF 1.1/2" 50 RF 3"	A105		À	talograph of			ASMI	ASME/ANSI B16.5 ASME/ANSI B16.5	B16.5	ن رن 	SATISFACTORY
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COD. COL. HEAT CODE	COLATA	POS.	MATERIALE MATERIAL	P. E.	%	%is	Mn%	%s	%д	ر در در	NI%	Mo% Ti	TI% C	Cu% V	N %	NP% NP%	N% AI%	% C.E.%		ALTRI ELEMENTI
	654722	0030	ASTM A105		0.196	0.243	1.110	0.015	0.014	0 620 0	0 032 0 0	0.028	0 001	0 0 22	0.001	0.001	0 000 0	V 0 700 0	0.408	
	71412	0031	ASTM A105		0.190	0.220	0.900	0.017				_							0.373	
	77048	0032	ASTM A105		0,190	0,180	0,890	0,015											0.369	
	74526	0033	ASTM A105		0,190	0,270	0,980	0,015						.					0.394	
	74301	0034	ASTM A105		0,185	0,200	096'0	0,014											0,384	
	09/77048	0035	ASTM A105		0,190	0,180	0,890	0,015	0,014 (0,070 0,	0,050 0,(0,010 0,0			0,001 0,0				0,369	
	09/35394	9003	ASTM A105		0,205	0,220	1,010	0,015	0,011 (0,090	0,050 0,0	0,010 0,0	.'0 600'0	0,150 0,0	0,000 0,0	0,000 0,0	0,000 0,0	0,009 0,4	0,406	
COD. COL.		POS.	PROVETTA / TEST SPECIM.	_	SNERVAMENTO	ROTTURA	ALLUNG	ALLUNGAMENTO	CONTRAZIONE	DUREZZA Hb	'A Hb	PIEGA	SCHIACCIAM.	IM.	RESILIE	RESILIENZA / IMPACT TEST		- JOULE/cm2	FORMA	MA SNERVAMENTO
HEAT CODE	HEAT	ITEM	SEZ./SECT. LUNG./LENG.		YIELD POINT TEN	TENSILE STRENGHT		ELONGATION RE	REDUCT. OF AREA	A HARDNESS Hb		BEND TEST	FLATTENING TEST		TIPO / TYPE	ပ္	-	2 3	SHAPE	YIELD POINT
4	-		mm2 mm		N/mm2 >=0,2%	N/mm2 >=	n<%	ņ	#<%	 				7	10x10mm				1=0 2=	2=□ N/mm2 >=1,0%
	654722	0030			324,0	530,0	ਲ —	30,0	61,0	159,0 - 163,0	163,0	0'0	၁'0		≩	20	.83	80	84 1	0'0
	71412	0031			325,0	524,0	 જે	34,0	59,0	159,0 - 163,0	163,0	0,0	၁'၀		≩	20	80	98	82 1	0,0
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COD. COL.	J	POS.		MATER	ALE IN AC	MATERIALE IN ACCORDO A					TRA	TRATTAMENTO TERMICO	O TERMI	Ö		•	<u>.</u>	FORNO		ORIGINE
HEAT CODE	HEAT	ITEM		MATERIAL	IN ACCO	MATERIAL IN ACCORDANCE TO	ဝ				-	HEAT TREATMENT	ATMENT				료	FURNACE		ORIGIN
	654722	0030	ASTM/ASME A 105/SA 105 M - 05	4 105/SA 1	05 M - 05				NORMA	NORMALIZED AT	920 C - C	- COOLED IN STILL AIR	N STILL	AIR			ELECT	ELECTRIC FURNACE	NACE	EUROPE
	71412	0031	ASTM/ASME A 105/SA 105 M - 05	4 105/SA 1	05 M - 05				NORMA	LIZED AT	920 C - C	OOLED	N STILL	AIR			ELECT	ELECTRIC FURNACE	SNACE	EUROPE
	77048	0032	ASTM/ASME A 105/SA 105 M - 05	4 105/SA 1	05 M - 05				NORMA	NORMALIZED AT 920 C - COOLED IN STILL AIR	920 C - C	OOLED I	N STILL	AIR			ELECT	ELECTRIC FURNACE	NACE	EUROPE
	74526	0033	ASTM/ASME A 105/SA 105 M - 05	4 105/SA 1	05 M - 05				NORMA	NORMALIZED AT 920 C - COOLED IN STILL AIR	920 C - C	OOLEDI	N STILL	AIR			ELECT	ELECTRIC FURNACE	RACE	EUROPE
	74301	0034	ASTM/ASME A 105/SA 105 M - 05	4 105/SA 1	05 M - 05		<		NORMA	NORMALIZED AT 920 C - COOLED IN STILL AIR	920 C - C	OOLED I	N STILL	AIR			ELECTRIC	RIC FUF	FURNACE	EUROPE
	09/77048	0035	ASTWASME A 105/SA 105 M 205 M 205 M 205 M 205 M 205 M 205 M 200 C - COOLED IN STILL AIR	4 105/SA 1	05 M 205	調事場の			NORMA	LIZED AT	920 C - C	OOLED	N STILL	AIR			ELECT		SNACE	EUROPE
	09/35394	9036	ASTM/ASME	4 105/SA 1	05 M ≅ 03	Fig.	ELEN GERMA	題為 照中星	NORMA	LIZED AT	920 C - C	OOLED	N STILL	AIR			ELECTRIC		FURNACE	EUROPE
NOTE	To To I	nenta .	Forramenta Mustriale		5,6	Vale Europe, 2G - TRI	a, 2G	TREVIE	Vale Europe, 26 - TREVIOLO (89)	UFI	UFFICIO CONTROLLO QUALITA' QUALITY CONTROL DEPARTEMENT	TROLLO C	UALITA'		ENTE UFFICIALE DI COLLAUDO INSPECTION AUTHORITY	TE UFFICIALE DI COLLAUINSPECTION AUTHORITY	COLLAUI		MARCHI	MARCHIO PRODUZIONE
	Õ	10.00			(Cod, Fisc. 6 F. IVA 007	P. IVA	00727	27710162											
	I)	0 1 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Sanimi		•						Ś	S. Corti								MFF

AO2 B.E. 730/ 281315 / 01	E: Recuit Emeliage BL. Brut de laminage TM: Laminage thermomác: LN: Laminage normalisant N: Normalisa A: Revenu A: Revenu A: D: Délensionné TE: Trempé à l'eau G: Adouct per recuit LTC: Leminage à température contrôlée	de livaison LTC ement de référence	B01 B1 B08 B08	134 Terriple 2 44 Veleura innifivid utilless Moryanne CO2 CO8 CO2 <c42> C43 CBH28 C97 C97 </c42>	Date 19/12/04 Agent B. PALL
SORLAC MEDITERRANEE CERTIFICAT DE RECEPTION NF EN 10204-3.1.B/DIN 50049-3.1.B/ISO 404	Acod	SUP 6522 AIII4011010 SASIE GREG-ASME 11 ED. 02 MODIF E > 12.5 BOBINE BRUTE AND BOBINE BRUTE	Unit Diembre Ulmensians en min Masse Err	128 42618 003 19 3.000 2000, 00 19 2160 10 10 10 10 10 10 10	CZEmplement Cartiform Ca

(6) ODC: Conforms orbitar charges / According to spicifications of its in the data incharges / According to spicifications of its incharges cornelisates / According to spicifications of its Lemmings cornelisates / Hornelisation tolling in rempt A is an / Heter quenching in Trempt A is an / Heter quenching in the control of Contr Traitement de réfé(6); e Treatment of test sample Page 1/FIN Valetirs Individuelles Moyenne Individual values Average 06.9 16.5 23,8 09,1 N: 730/0072059 Agent / Receiving Agent 28/08/07 Résillence / Impact testing B01 90,7 06,9 34.2 S. JM.LAMY 1 A02 P.03. 5 - -296 Oate Temp. <u>..</u> 1 2 8 8 Lie 190 63 **v** (c) 8 ---We hereby ostilly that the above cited stitipment was produced according to the technical specifications of the controlled and the specifications as well as all norms and series completed, it meets those specifications as well as all rooms and series of the control.

Controlle de hierquinge, d'aspect of de dimensions: sells(alsanis hereodon of matkings, surface, sizes; satisfactory. ype 0,04 181723 ã ≥ ≥ Log Ref 목목 60,0 31113 ON CONTON LANGER OF COLOR 688.886. Arres 683 <u>U</u> 2 683 • Nuances el spécifications technitands and technical spècifications C81 SOMMESSA STORIGHT fracilian / Tensile requirements -- CS 1 - Chb 286 ς. CES 35,7 SA616GR80-1SAMPLE/ASME618 18 CIC -00-21 HAXI HILO, 86 -1, 20 P -0, 035 HAXI S -0, 035 HAXI SI-0, 15 -0, 40 CU-0, 40 HAXI HILO, 40 HAXI CR-0, 10 HAXI V -0, 03 HAXI TI-0, 03 HAXI TI-0, 03 HAXI CBH33-CR-HO -0, 32 HAXI V -0, 33 HAXI TI-0, 03 HAXI プラー関ース関この S. King OF UT WELL -> 0,00 73,3 73,2 Ë BOBINE BRUTE ٠. ش 57,0 57,0 54,8 7-3.1/DIN 50049-3.1.B/18O 10474 Re02 ŢŢ C82 0,01 Pales Temp. Ξ ce1 0,03 202 Ref. 뭐뭐 N. Commande Usine Mill's Order Nbr AOB ă PRISM 20 C Type 71413007006 000016 ě 0,01 \$ a a T Rex32 HINT KGI Rm=60 -80 KSI At (50)=25 HIN Em Pla (2) (3) 2 | ; ⊢ ⊢ A JANA Se 0,02 The state of 26765 0,04 N. Confinande Courlier(Glent Customer's Order Nbr 16110do dlab Neth. Coulde DT: Thomas H: Hartin 18 bi Macrigus / Blactric 18 O/Y: Day, pur / Basic oxyg. 18 Cc: Coulde Continuo ž 407 SERTIFICATO DI COLLAUDO NF EN 10 Longueur Length 0,030 F 813 Analyse sur produll / Check analysis = 0,18 Dimensions Sizes 0,002 Largeur Width O'Coeur / Core sample 11: Péau / Rolled aurrace 11: Péau / Rolled aurrace 11: Péau / Thickness 12: 15 Epais / Thickness 11: 15 Epais / Thickness 11: 15 Epais / Thickness 12: 15 Epais / Thickness 1 9 2000,00 2000,00 2000,00 909 V TALLE 0,015 á Client et/ou destinataire Customer and/or consignee Sigle du producteur Mill's Identification Epalsseur Thicknes 20,000 10,000 ξuž ERANCHINE LAMIERE 8.P.A VIA IV HOVEMBRE 32 I-25010 SAN ZENO HAVIOLIO c72 1,14 FOS Empleoement/Location 13/01lentallon/Uheollon 14.

1 file / Head L.Long / Long/Longlucinal 2 Pled / Bottom T: Travers / Traverse 1 Tr Nombre de pièca Number of pieca Ü MANUA MEDITERRANEE Ilem Poste 803 001 001 N. Coulée Heat number 730723093 USINE DE FOS 13776 - FOS SUR MER CEDEX FRANCE 11:04.42.47.33.14 Fax:04.42.47.24.27 Coulés Heat Identification du produit Product identification 807 730723093 730723093 ≥ ≥ Organisma elfou service de contrôle Inspection organism of steri Repère Plèce makin Plate number RECEPTION UGINE 19UP ER CONTRL ORGÁNISME Repère pièce Piale number s Z B08 2035027 2035028 0/YCC

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A09/A03		lada anico	- E	BO4				1		1
	ione nalizzazione	Trempe à l'eau / Tempra all'aqua : Laminé temp. controlled l'aminazione a temp. controllada : Laminage thermoméeanique / Laminazione termomeccanico Normálisé / Normálizato Détensione é Distensione // Adouci par recuit / Ricottura di addolcimento	Etat de livraison Stato di consegna LTC:LN	Traitement de référence Trattamento di riferiménto BL,N B0		Moyenne Media	043 47,9 51,6			10
	ia Il laminaz ione nom	azione a tuminazion Idolcimea	Stat 1	Trattame			44,5			110
ogither Complete	a omattu o grezzo e / Laminaz	ra all'aque e / Lamin nique / La to ne ne		B01	nza	Valeurs individuelles Valori singoli	88.2 88.2 88.2			20/03/10 e ERS
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1	BL: Recuit En BL: Brut de LN: Lamine A: Revenu	TE: Trempé à l'eau / Tempra all'aqua LTC: Laminé temp: contolde / Lamina TM: Laminage thermomécanique / Lam N: Normalisé / Normalizzato D: Détensionné / Distensione Q: Addouct par recult / Ricoltura di ad				S (S)	8 22 61 - 100		C92	
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		·				Pos Ref	8	٠.,	CBN13 C90 0,07	che tecnic ti delle
		:					<u> </u>		80	le specifi ii i requisi
			cniche				SP /3		80	Certifichiano che i prodotti sopra elencati sono stati fabbricati in conformita con le specifiche tecniche del contratto e che tutte le operazioni di controllo e prove effectuate, soddisfanno tutti i requisiti delle specifiche speciali e delle norme in ugore concernenti questi prodotti Controlle de marquage, d'aspect et de dimensions : satisfati.
TOTA			ecifiche te						C81	iti in confr ate, soddii prodotti
1.0.1.			Nuances et spécifications techniques / Tipi di accialo e specifiche tecniche	2003			CH.CO.N. CO.N. CO.N. CO.N. CO.N. CO.N. CO.N. CO.N. CO.N. CO.N.) 85	Certifichiamo che i prodotti sopra elencati sono stati fabbricati in conficontatio e che tutte le operazioni di controllo e prove effectuate, soddi specifiche speciali e delle norme in vigore concernate questi prodotti Controlle de marquage, d'aspect et de dimensions : satisfaix.
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OC ATT			chniques /	SME PAI	Traction / Trazione			030 MAX	V % C34 0,001	ora elenca mi di cont ie in vigor t et de din
77.17			ications te	AMPLE A	Trak	R _m	5,4 71,7 71,3 5,4 71,7 71,3 71,3 71,3 71,3 71,3 71,3 71,3	VXI TI=0,	C83 0,002	rodotti so e operazio delle norrr e, d'aspec
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* COLLAUDO INF	ĮĮ.		N° Commande Usine N° di Ordine della fabbrica	FH01001008		S Pos. (3) Z(4)		MAXIN	% MO% C79 0,004	(7) Masse peste et données a tire indicalif se (Massa pesata e merco di peste imen di del main a tirol di peste imen di peste im
2	(50)=25 !		N° Com N° di Or	FH0	E	Emp Pos (2)	0,	I CR=0,3(CU%	ombre de onnées a tassa pesa pesa pesa pesa pesa mero di
271	KSI A%			A07	-	Per (C	26645	,40 MAX	CR% C77 0,03	Coulée Co
FICA	m=60 -80 LB		nmande at/Client ordine	ente/Clicate 10-010	7	Longueur Lunghezza	<u>r</u>	AXI NI=0	AL% C76 0,032	ab-Meth C M: Marti ue / Elettri éne pur/ uro
CERTIFICATO	INI KSI I BF FT X		N° Commande Courtier/Client N° di ordine	del agen 10	nsioni	-		J=0,40 M	S1% C75 0.23	(6)Mode élab-Meth Coulée (1: Thomas M: Martin of 1: Eletrique / Eletrico O/Y: Oxygène pur/Osigen puro
1	T Re=32 MINI KSI Rm=60 -80 KSI A%(50)=25 MINI KV L - 60dgF FT X LB			<u></u>	Dimensions / Dimensioni	Largeur Larghezza	2000,00	5-0,40 Ct	Analyse sur produit / Analisi sul prodotto C% Mn% P% S% C71 C73 C73 C74 0,15 0,75 0,018 0,003	1.
		\$00 V		ITALI	Dimensi		R	XI SI=0,1 =CR+MO	t / Analisi P% C73 0,018	(4) Position /cpaisseur 1:cp.red l'onn-full size 5:cp.red l'onn-full size 6:cp.red ,7mm-1/2 size 6:cp.red ,7mm-3/3 size 7-7 cp.red ,7mm-3/4 size
	Sigle du producteur Sigle del produttore	os sur Mer	rire rio	S.P.A VIGLIO		Epaisseur Spessore	900°5	0,035 MA CI CBN23	Mn% C72 0,75	4) Position :ep.red101 :ep.red5m :ep.red6.7
	Sigle	<u> </u>	u destinate destinata	AMIERE MBRE 32 ZENO NA	Nombre de	pièces Numero	1 V X	1,00 MAX		
		ANEE X 17.20 A01	Client et/ou destinataire Cliente e/o destinatario	CHINI L V NOVER	Poste		001 00 001 001 001 001 001 001 001 001	=0,035 h	ilée *	tion / Sen ongitudine Trasverse L
		ARCELCRANTAL MEDITERRANEE USINE DE FOS SUR MER 13776 - FOS SUR MER CEDEX Têl:04.42.47.33.14 Fax:04.42.47.17.20		Uganisto eo contollo eservizio di contollo REANCHINI LAMIERE S.P.A RECEPTION USINE +SUP VIA IV NOVEMBRE 32 ER CONTRL ORGANISME 1-25010 SAN ZENO NAVIGLIO ANS	air Diffe	Coulée Colata	12452 122452 122452	AC:C =0,21 MAXI MN=0,60 -1,20 P =0,035 MAXI S =0,035 MAXI SI=0,15 -0,40 CU≠0,40 MAXI NI=0,40 MAXI CR=0,30 MAXI NB=0,020 MAXI V =0,030 MAXI TI=0,030 MAXI MO=0,120 MAXI CBN13=CU÷NI+CR+MO =1,00 MAXI CBN23=CR+MO =8,32 MAXI	N° Coulée N° di colata B07 730 022452	(3) Orientation / Senso L.:Long / Longitudinale T.:Travers / Trasversale 3:30° / L.M. 445 / L.M.
1.	<u> </u>	TTAL ME DE FOS SI S SUR MI FRANCE 3.14 Fax:	t/ou trôle	evo Sine +SU RGANISA APF	Identification du produit	రిర	730 (XI MIN=0,	Repere Pièce N° di prodotto B08	
7	ArcelorMittal	ELORMI USINE I 3776 - FO:	Organisme et/ou ervice de contrôl	Organismo e/o servizio di controllo RECEPTION USINE + ER CONTRL ORGAN	lentification ntificazion	Repère pièce N°di prodotto	020 021 7	120 MAX		(2) Emplacement/ Posizione 1:Tête / Testa 2:Pied / Piede 3:1/2 longueur /
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Control Cont	FOS Clen et/ou destinataire Customer and/or consignee	alre	Sigle du productieur T Re-32 MINI KSI Rm=60 -80 KSI A%(50 P-25 MINI MII's identificațion T Re-32 MINI KSI Rm=60 -80 KSI A%(50 P-25 MINI MII's identificațion T Re-32 MINI KSI Rm=60 -80 KSI A%(50 P-25 MINI MII's identificațion T Re-32 MINI KSI Rm=60 -80 KSI A%(50 P-25 MINI MII's identificațion T Re-32 MINI KSI Rm=60 -80 KSI A%(50 P-25 MINI MII's identificațion T Re-32 MINI KSI Rm=60 -80 KSI A%(50 P-25 MINI MII's identificațion T Re-32 MINI KSI Rm=60 -80 KSI A%(50 P-25 MINI MII's identificațion T Re-32 MINI MII's identificațion T Re-32 MINI KSI Rm=60 -80 KSI A%(50 P-25 MINI MII's identificațion T Re-32 MINI MIII MII MII MII MII MII MII MII M	NIM SC OS MINI	SMINI ALL CHERNISH ALL FRANTILL PERMINES ALSOÉGICAE MITS Order Nor	Child College And Educations of specifications Mirs Order Nor	3/06	cifications te	chniques /	Grede and I	3/06	cifications		(5)	CDC: Contorn: BIL: Brut de la L. Brut de la L. Tenning de la Revenu a Revenu a l'TE: Trempé de l'TE: Trempé de l'TE: Trempé de l'TE: Trempé de l'Estambag. TM: L'MONTE de l'Estambag. TM: L'MONTE de l'Estambag. D: Défensio	Conforme e AO2 But de lam nage / Ao rolled But de lam nage / Ao rolled But de lam nage / Ao rolled Reventa - Tempering Reventa - Tempering Reventa - Tempering Laminage de lam Verter quención Laminage de harmonides / Con Laminage de harmonides anique / 19 Konnalide / Mormelitzer Abbuticane Bress releving Abbuticane Bress releving	ODC: Conforme eather changes / According to specifications Ell.; short do turn rage / According to specifications Ell.; short do turn rage / According to specifications Ell.; short do turn ranges / According to specifications A. Sevennus Temperal; Normalization rolling A. Sevennus Temperal; Normalization rolling TUC: Laminage temp. controlled Control order TW: Laminage Sememekanique / Thermo-mechanical forming D. Divernation & Serea reserving D. Divernation & Serea reserving D. Adoltic laureral / Seria intestition Eleterators Defension order Defension	on rolling on rolling confectanical forms Elat de Defrer Defrer	A09/A03 eedifications ng chenical forming (1) Elat de feralson Deferacy condition (17)
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ALX CRK CUK WOX NBY NIY TIY V K CBS CBS	4,000 ID OUN Stab. di DRD. DRD. DRD.	ZOOD, DO PLIANT S IVIGINOIS OR NIE A COLEGA OR WAS A COLEGA OR	PA dentro Lav. Lc. 3 B. (AL) ALL'CRIGINALE	26295 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D 40 00 00 00 00 00 00 00 00 00 00 00 00	ISM BL		© .	30,1	-014-029		0-080		है					
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कांक्ष कर



Sede: Via Grazioli, 30 20161 Milano (MI) Tel. #39.02.66.20.20.66 Fax #39.02.66.20.20.99

Stabilimenti produttivi: Via Valmolina Inferiore, 130 23852 Garlate (LC) Tel. +39.0341.68.15.46 Fax +39.0341.65.03.40

Via Adda, 20 Loc. Capiate 23854 Olginate (LC) Tel. +39.0341.68.15.46 Fax. +39.0341.60.60.68

CERTIFICATO DI COLLAUDO / TEST CERTIFICATE CERTIFICAT D'ESSAI / PRÜFUNGSATTEST

6608/10 del 04/11/2010

mail@costacurta.it CLIENTE/CUSTOMER/CLIENT/KUNDE POSIZIONE ARCHIVIO OVER SRL MONTAGGI INDUSTRIALI 24050 GRASSOBBIO BG 20200 DATA/DATE/DATE/DATUM COMMESSA/JOB/AFFAIRE/WERKSAUFTRAG COLLAUDO SECONDO/TEST ACCORDING TO/ESSAI SUIVANT/PRUFUNG NACH FAX 13/10/2010 753/005719/0/10 (1)DESCRIZIONE/DESCRIPTION/DESCRIPTION/BESCHREIBUNG LAMIERE FORATE TIPO/TYPE/TYPE/TYP MATERIALE/MATERIAL/NUANCE/WERKSTOFF 304 **ASTM A 240 TP. 304** 2000x1000x1.50 mm ANALISI CHIMICA A NORMA/CHEMICAL REQUIREMENTS/ANALYSE IMPOSEE/CHEMISCHE ANFORDERRUNGEN C Mn P S Сr N Sî Ni MIN 17.50 8.00 MAX 0.07 2,00 0.045 0.03 0,75 19.50 10,50 0,10 PROPRIETA' MECCANICHE/MECHANICAL PROPERTIES/PROPRIETES MECANIQUES/MECHANISCHE EIGENSCHAFTEN R (Mpa): Colata 013085

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ArcelorMittal - Staintess France	Gontrollato dal Sistema	MARCA/MARK/MARQUE/MARKIERUNG
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62330 !sbergues	The state of the s	POS./ITEM/REPÉRE/POS.
FRANCE	ISO 9001 V2000 - ISO TS 16949 V2002 ISO 14001 V 2004	
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Werksauftragsnummer Aus	Besteller undroder Empfaengen Rundenbestellnummer Asy	DISEGNO/DRAWING/PLAN/ZEICHNUNG
0UA907535/01-33/96/1	SARINOX METALLI SPA 4300006376	
Product - Produit - Erzeugnis COLD-ROLLED COIL	VIA ALFIER 13 Customer article number	MARCA/MARK/MARQUE/MARKIERUNG
BOBINE LAMINEE A FROID	20060 BASIANO (MI) Artikolnummer des Kunden A99	
KALTGEWALZTES BAND	BU)	
Steel designation Désignation de l'accer	Présentation Mode d'élaboration de l'acter Stahlherstellungsverfahren Einf de livraison du produit	POS./ITEM/REPÉRE/POS.
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EN 10028-7 #08 - 1. 4307 4301 EN 10088-2 #05 - 1. 4307 4301	2B Procfatric, Four a arc-VOD/AOD-Coules continue. Solution treated 1000-1100-C Instrumental Ins	DISEGNO/DRAWING/PLAN/ZEICHNUNG
ASTM A-240 / 09 - AISI304L AISI304	2B Any supplementary requirements. 2B Any supplementary requirements. 2B Prescriptions supplementaries Zusälzliche Anförderungen.	
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Identification du produit-lidentifizierung des Frzeugnisses	Dimensions - Abmessungen Nombrents pieces - Stucekzahl	
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implacement de l'échantillon La fourniture e	est conforme aux exigences de la commande Organisme el/ou service contrôle	CONFORMITÉ Á LA COMMANDE
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DIR.UFF.DEP.; Z.L CIMAFAVA 29013 CARPANETO (PC) ITALY TEL 0523-859043/TELEFAX 0523-850763 E-MAIL: compubi @ compubi.com CF-P.IVA/VAT CODE IT 00275990331 MECC.PC. 006303 R.E.A. N.95436—ISER.REG.IMP.PC N.4191 ATTESTATO DI CONFORMITA' EN 10204/2.1 CERTIFICATE OF COMPLIACE EN 1020WZ.1 ATTESTATION DE CONFORMITE EN 1020WZ.1

DATA Date

CLIENTE / Customer / Client

SPETT.LE JANNONE FERRO TUBI SPA SEGRATE (MI)

257/08 No.

30.04.08

ORD, CLIENTE / Customer's ordes/ Commande du Client

NR. 08/642 DEL 23/04/2008 -NR. 08/654 DEL 24/04/2008 -

NR. 08/661 DEL 24/04/2008 -NR. 08/660 DEL 24/04/2008 -

NR. 08/668 DEL 28/04/2008 -

GALVANIZED STEEL TUBES

NORMA - ACCIAIU / Specification - Steel / Specification Actor

ESECUZIONE / Execution / Execution

X

API 5L - ASTM A106 GR.B

SENZA SALD / Samiless / Sans soudine SALDATO / Welded / Soude

Pas. from Pos.	DIMENSIONI Dimensions Dimensions	QUANTITA' Quantity Quantité	PRODUTTORE Manufactures Production	CERTIFICATO DI FABB. Mili usi certificate Certificat d'usine	CODE
1	1.1/4" X 3,56	MT. 12,00	ZELEZ - H.71357	14511/1/2007	
2	3/4" X 2,87	MT. 12,00	ZELEZ - H.71427	14752/1/2007	
2 3	1/2" X 2,77	MT. 18,00	ZELEZ - H.50359	3339/1/2005	,
1	3/4" X 3,91	MT.150,00	ZELEZ - H.61902	16110/1/2006	. G. C.
1	1.1/2" X 3,68	MT. 6,00	TENARIS - H.760442	06/10918	fr_i
2	6" X 7,11	MT. 24,00	TUBOS R - H.89845	186571	, "
1	1/2" X 2,77	MT. 12,00	ZELEZ - H.50359	3339/1/2005	
7	3/4" X 2,87	MT. 78,00	TENARIS - H.770432	07/15345	
2 3 4	1" X 3,38	MT. 6,00	TUBOS R - H.89733	186572	
4	1.1/2" X 3,68	MT. 216,00			
7	1.1/2 1.2/00	(MT. 138,00)	TENARIS - H.761407	06/22550	
		(MT. 78,00)	TENARIS - H.760442	06/10918	-
5	2" X 3,91	MT. 180,00	TUBOS R - H.88396	179398	
6	3" X 5,49	MT. 90,00			
_		(MT. 48,00)	TENARIS - H.772753	07/30908	
		(MT. 42,00)	TENARIS - H.772147	07/24633	•
1,	5" X 6,55	MT. 6,00	VOEST A - H.424378	Z26521	1
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ZINCATURA A CALDO Hot galvanizing / Galvanization a classed PILETTATURA Threading / Fileting

MANICOTTO Coupling / Manchon

ANSI BILZOLI NPT

3000 LBS

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IL CONTROLLO VISIVO E DIMENSIONALE DEI TUBI E' STATO EFFETTUATO CON ESITO SODDESFACENTE/VISUAL AND DIMENSIONAL CONTROL OF THE TUBES IAS BEEN CARRIED OUT WITH SATISFACTORY RESULTS/ LE CONTROLE VISUEL ET DIMENSIONAL DES TUBES A ETE EFFECTUE AVEC SATISFAISANT RESULTAT.

NOTE / Remarks / Notes

UFFICIO COLLAUDI Inspection Dept/Service Quality

COMTUBI S.F. A.CREGORI RESP.COSTIONE OF



Ordine n. TEL SIG. LIV del 28/04/2008 Bolla n. 3959 Item 114,3 X 6,55 Colata-heat 424378

Kg. 144 MT 6 del 5/05/2008 Code SS API 5L ZINC. VM

0000001469.001

Cliente: OVER SRL JANNONE FERRO TUBI S.p.

N. Pezzi 1





Inšpekčný certifikát Inspection certificate EN 10204:1991/3.1.B, DIN 50049/3.1.B

Zákaznik/Prijemca - Customer/Consignee:

VIA G.DI VITTORIO-ZONA INDUSTR

FIORENZUOLA DARDA(PC

IL PRESENTE CENTIFICATO E DO PER

CLIENTEERRAMENTA INDUSTRIALE

ORDINE Viale Europa, 10 - TREVIOLO (50)
Tel. 035-2017565 - Pay 035-201268
N° Cod. Fisc. 6 P. IVA 00727710162

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T.A.L. S.P.A.

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ITALY

Čislo 39255/1/2005

List c. - Sheet Na.: 1 / 2

Ferramenta Industriale

C.ext.obj. - External order No.: 051537

Číslo položky - Article member: 3

C.obj.prij. - Consignee order No.:

OF-050097

Číslo zákuzky výrobcu – Manufacturer's works order number :

Dv 60334/2/2 6523008

Ĉisio dopravneko prostriedka - ll'agon No. :

BR 858 AK BR 838 YA

Číslo ložného lista - Loading Bill No.: 671279

Číslo aviza - Dispatch note:

654626

Výrabok - Product:

Rúry oceľové bezošvé, ťahané za studena - naftovodné rúry

Seamless cold-drawn steel tubes - line pipes

Vonknjší priemer - Outside diameter: 13,700 mm

Hrúbka steny - Wall thickness:

2.240 mm

Dĺžka - Length :

6000,900 mm -0 +100 mm

Počet kusov - Number of pieces :

Celková dĺžka - Total length:

1549.00 m

Celková hmotnosť - Total mass ;

1004 kg

Material - Material :

X42/PSL 1 API Spec. 5L/2004/, B/PSL 1 API Spec. 5L/2004/,

Grade B ASTM A 53 / A 53M/2004/, Grade B ASTM A 106/2004/,

Grade B ASME SA-106/2004/, Grade B ASME SA-53/2004/

Stav dodania - Products as delivered condition: NBK

Technické predpisy - Technical requirements/Demand:

ASTM A 106/A 106/M-04b, ASTM A 53/A 53/M-046, ASME SA-106 E2004, ASME SA-53/SA-53/M E2004, API Spec.5L/2004, ASTM A530/A530M-04s, ASME SA530/SA530M-99. TALTS-01 REV.3, ASME B 36,10M

Člsio tavby Cast number	Počet kusov Number of pieces	Dĺžka Length [m]	Himotnosť Mass [kg]	Druh tuvenia Steelmoking process
51192	223	1339	369	£
54025	35	210	135	E

Druh occie - Steel grade : úpine ukľudnená oceľ - fully killed steel

Chemické zloženie - Chemical composition :

Au.		C [%]	Mn [%]	Si [%]	P [%]	S [%]	Cu [%]	Cr [%]	Ni [%]	A! [%]	Mo [%]	Ti [%]	V [%]
Číslo tavby <i>Čast munber</i>	Predpis -	Requirem	aus:									-	
Cara managa	min. max.	0.20	1,06	0.15 0.35	0.020	0.010	0.30	0.30	0.40	0.015	0.12	0.040	0.030
51192		0.13	0.64	0.23	0.006	0.007	0.22	0.07	0.09	0.012	0.02	0,002	0.004
54025		0.12	0.65	0.22	800.0	0.009	0.18	0.06	0.07	0.011	0.01	0.001	0.006

Mieste Location v Pedbrezov

Dátum 19.10.2005

Date

dačni smetrije

o oddelenia Ing. Vojtas Miroslav Engineering inspection official









ZELEZIARNE PODBREZOVÁ, a. s., 976 B1 Podbrezová, SLOVAKIA

Telefón / Phone: +421 48 645 40 70, 645 40 71, Fox: +421 48 645 40 72, www.oceloverury.sk, www.steelinibe.sk CO 31 562 141, IC DPH / VAT Nº: SK2020458704, Bonková spojenie / Bonk occount VÚB Bondoù Bysinca, Nº 1909-312/0200 Spoločnosť je zapísaná v Obchodnom registri Okresného súdu Banská Bystrica, oddiel Sa, vložka číslo 69/S



Inšpekčný certifikát Inspection certificate EN 10204:1991/3.1.B, DIN 50049/3.1.B

Císio 39255/1/2005 Number

List č. - Sheet No. : 2 / 2

_		Nb [%]	CEV [%]
Čisio tavby Cast number	Precipis -	Requireme	nts:
Child tempera	min. max.	0.019	0.40
51192		0.003	0.28
54025		<0.001	0.26

CEV: C+Mn/6+(V+Mo+Cr)/5+(Ni+Cu)/15

Výrobková ana	ýza -	Product	anai	vair:
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Výrobkova ana Číslo tavby Cast manber	iyza • rru	C [%]	Mn [%]	Si [%]	P [%]	. S [%]	Cu [%]	Cr [%]	Ni [%]	Al [%]	Mo [%]	Ti [%]	V [%]
51192	1	0.14	0.63	0.22	0.007	0.006	0.23	0.07	0.09	0.010	0.02	0.001	0.064
51192	2	0.14	0.64	0.23	0.007	0.006	0.22	0.07	0.09	0.011	0.02	0.001	0.003
54025	1	0.13	0.65	0.22	0.008	0.009	0.18	0.06	0.07	0.011	0.01	0.002	0.006
54025	2	0.13	0.65	0.22	0.008	0.009	0.18	0.06	0.07	0.011	0.01	0.002	0.006
2.025		1	T					***************************************					

Čísla tavby Cast munber	•	Nb [%]
51192	I	<0.001
51192	2	<0.001
54025	1	<0.001
54025	2	<0.001

2000

2447	KW I BUGGH - 1 CHOME LESS !	~U C	•		
	Čísio tavby		Medzo klen Vield point - Proof stress	Pevnosť v ťahu Tensile strength	Tužnosť Eksegation
C. Nr.	Cost number		Reil/ MPa/	Rm/ MPs/	Lo=2"/94
Nr.	Predpis - Requirements :	min.	290	415	30.0
1		max.			
ī	51192		334	470	49.0
2	54025		346	464	36.6

Skůška vodným tlakom vyhovela. Hydraulic pressure test without objections. 207 bar 5 sec

Skáška ohybom vyhovela. Bend test without objections

Eddy current test without objections ASTM E-309 100 %

Výrobky spĺňajú základné požiadavky na materiály pre tlakové zariadenia uvedené v Prlohe i Smernice pre tlakové zariadenia (PED) 97/23 EC.

The products are in compliance with the material basic requirements according to the Pressure Equipment Directive (PED) 97/23 EC. Annex I.

NACE MR 01-75-2003, HRC max.22. NACE MR 01-75-2003, HRC max.22.

Potvrdzujeme, že minimálne hodsoty medze klzu za zvýšenej teploty sa zhodujú s minimálnymi hodnotami medze klzu pre všetky zvýšené teploty, ktoré sú predpísané normou ASTM ASME II, časť D, tabuľka Y 1.

We certify that min. hot yield point values are in compliance with the min. hot yield point values for all the elevated temperatures prescribed by ASTM ASME II, part

D.table Y1.

Skůška rázom v okybe nebola vykonaná z důvodu nedostatočného rozmeru růry, ktorý nedovoľuje pripraviť prislušné teliesko na jej vykonanie. Impoct test hos been not performed due to insufficient pipe size that doem't permit oblahning subsize impoct speciment.

Všetky výrobky vyhovujú vyššie uvedeným normám a požiadavkám v objednávke.

All products meet requirements of above mentioned standars and requirements specified in order

Vizuálna kontrola a rozmery vyhoveli (100 %). Visual inspection and dimensional check without objections (100 %).

Vedúci kontrolného a atestačného oddelenia Ing. Vojtas Miroslav Engineering inspection official

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FERRAMENT

Viale Europa, c

Tel. 035-20123

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A INDUSTRIALE

- 1/K 2VIULO (8G)

- FAN 468-201208

7. 7. 5.7.1.

Cod Fisc. e P. IVA 00727710162

EZIARNE

end ordaleria

Miesto

v Podbrezovci

Dátum 10.10.2005 Date



ŽELEZIARNE PODBREZOVÁ, p. s., 976 81 Podbrezová, SLOVAKIA Telefon / Phone: +421 48 645 40 70, 645 40 71, Fax: +421 48 645 40 72, www.oceloverury.sk, ww IČO 31 562 141, IČ DPH / VAT N°: SIC2020456704, Bankové spojenie / Bank account: VÚB Banská Bystica, N° 1909-312/0200 Spoločnosť je zapísaná v Obchadnom registri Okresného súdu Banská Bystrica, oddiel Sa, vlažka číslo 69/5

FERRAMENTA INDUSTRIALE BONACINA SRL CERTIFICATO DI COLLAUDO SECONDO EN 10204 - 3.1

V.LE EUROPA 2G 24048 CURNA

Fattura N.

10.11.2007 07 11.2007

Del Del

DDT N 2440

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	24048	24048 CURNASCO DI TREVIOLO BG IT	BG	⊨	Ns. Ord. N.	- 2
Questo documento certifica che i raccordi sottocitati sono fabbricati in accordo con l'ultima normativa applicabile: ASME/ANSI MSS CO	sono fabb	oricati in accordo con l'ultima n	ormativa	applic	abile: ASME/ANCI MCC.	

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DIM.IN ACC. A VISIVO E DMENS.

DESCRIZIONE

A105N MANICOTTI 1/4 3000 NPT A105N 1/2 MANIC. 3/4 3000 NPT A105N 1/2 MANIC, 1/4 3000 NPT A105N 1/2 MANIC. 1/2 3000NPT

304/304L TEE 3 SCH.40S W

Q.TA

VS.ORDINE

Pos.

COLATA

COD. COL.

200981 761044 72475 72476 73847 74307

Flanges & Fittings Italia s.p.A. COMPANY WITH QUALITY MANAGEMENT SYSTEM CERTIFIED BY BYOI ISO 9001:200

nenta

JOPTE

304/304L R.C. 6X4 40S S

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0,010 0,010

DUREZZA Hb

CONTRAZIONE

ALLUNGAMENTO

1/mm2 >= 604.0

ROTTURA

SNERVAMENTO N/mm2 >=0,2%

SML ≥

FORMING

TRATT, TERM.

Pos.

COLATA

COD. COL.

74524 40801

14A TU9

85N

W WX

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RESILIENZA - JOULE/cm2

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267,0 301,0 240,0

SMLS

COLD COLD

012 013

761044

200981

015 014 016 017 018 019 020 021

72476

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3P852CH

P852

2536 A70 N58

74307 73847

304,0 329,0 328,0 306,0 305,0 301,0

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NOTE NACE MR0175/03 - NACE MRO

74524

14A TU9

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SA/A234 WPB SA/A234 WPB

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Mn%

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SA/A403 WP304/304L SA/A403 WP304/304L

SA/A105N SA/A105N SA/A105N SA/A105N

MATERIALE

COLATA

COD. COL.

761044

72475 72476 74307 73847

200981

A105N GOMITI 90 1/2 3000 SW SA105M

2 5 2.0

020 021 022 023

74524

14A TU9

N58

A105N TEE 1/2 3000 SW SA105M A105N TAPPI M.T.E. 1/2 SA105M

A105N GOMITI 90 1 3000 SW SA105M

WPB CAPS 12 SCH.STD

WPB CAPS 12 SCH.XS

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COLLAUDO ESTERNO

ENTE UFFICIALE DI COLLAUDO

UFFICIO CONTROLLO QUALITA'

QUALITY CONTROL

delle analisi chimiche e prove meccaniche sono una copia conforme all'originale dei conflicte. ASME/ANSI MSS-S	Survey of the said th
I risultati delle analisi	

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Certificato n. 2921

L L C

1=Prodotto a caldo tra(620 980 2 Tratt. di distensione 3=Normalizzato 4=Normalizzato e rinvenuto

5≂Temprato e rinvenuto 6=Solubifizzato 7=Vedi descrizione

€

DUEN.

TEST CERTIFICATE 3.1

Certificato di analisi chimica e prove meccaniche

Via Repubblica 1 25065 Lumezzane Brescia tel. 030872934

AELLEBI SRL

3.1 - en - 10204:2004

•		Analisi meccaniche / mechanical test	4 C% HB TT	24 165 N	45 27 135 S	46 28 131 S	45 26 149 S	58 27 150 S	45 150 S	24 165 N	37 165 N
)/Certificate	0	caniche /	N/mm2 A%	215	2511	2421	2641	2601	6 - 128	215 24	5 129
Nr Certificato/Certificate	2258 del 29/09/2010	Analisi med	R - N/mm2 S - N/mm2	4001	4521	441	465	2001	553 1346	400	497 255
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00	2258	chimiche / chemical analisys	Cr% Mo%	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,010 0,027 0,000 0,000 0,000 0,080 0,000 0,000 0,314 0,000	0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	0,010 0,007 0,000 0,000 0,011 0,005 0,000 0,000 0,000 0,000 497
		Analisi o	Ni% C								
		A	N %S	0,130 0,470 0,190 0,016 0,027 0,000	0,170 0,580 0,210 0,016 0,015 0,000	0,140 0,450 0,230 0,017 0,020 0,000	0,170 0,780 0,220 0,016 0,015 0,000	0,180 1,150 0,300 0,018 0,010 0,000	0,180 0,790 0,240 0,015 0,016 0,120	0,130 0,470 0,190 0,016 0,027 0,000	0,170 0,610 0,230 0,023 0,017 0,005
			Ъ%	0,016 0	0,016 0	0,017 0	0,016 0	0,018 0	0,015 0	0,016 0	0,023 0
	BG		%iS	0,190	0,210 (0,230 (0,220 (0,300 (0,240 (0,190	0,230
			Wn% Si%	0,470	0,580	0,450	0,780	1,150	0,790	0,470	0,610
	NA SRL		% °	0,130	0,170	0,140	0,170	0,180	0,180	0,130	0,170
Cliente/Customer	FERRAMENTA INDUSTRIALE BONACINA SRL VIALE EUROPA 2/6 24048 (FRA.CURNASCO) TREVIOLO	0000	Descrizione	20 FLANGIA UNI 2278 DN 125 STR	FLANGIA UNI 2276 DN 250	10 FLANGIA UNI 6093 DN	FLANGIA UNI 6093 DN	.5 FLANGIA UNI 6093 DN 25	6 FLANGIA UNI 6093 DN	15 FLANGIA UNI 6093 DN 40 SJR	FLANGIA UNI 2276 DN 400
	FERRAMENT VIALE EUI 24048 (FI		of St	20	r4	10	10	15	9	15	-
	FI V1		Colata	2-15545	1617	1072	9612	100311	7846	2-15545	08K68716

Ferramon/a\noustriale & BONACINA S.r.l.

0727710162

Viale Europa, 20. 17. Tel. 035-201266 - F. Cod. Fisc. e P. 194 00

Specifiche: A 105/a 105m - 01 - S235JR

Materiale conforme all'ordine ed alle specifiche

Controllo visivo e dimensionale positivo

Ufficio controllo qualità AELLEBI SRL

Bulloneria Trevi srl Via C. Porta, 7 24047 Treviglio (BG)		INSPECTION CERTIFICATE EN 10204 3.1	ERTIFICATE 3.1	N° 10071	DATE 27/04/10		OVER sri VIALE MA 24050 GRA	OVER sri VIALE MATTEOTTI 16 24050 GRASSOBBIO (8 <i>6</i>)
ROLLED BAR ANSI 81.1 A/SA 193 B7 5/8"-11UNCX1000	A/SA 193 B	/SA 193 B7 5/8"-11UNCX:		Order FAX Item	Date 27/04/10	Heat AR4760	LOT 1090557	RDC 815849
Heat tree The material is conforming to the following specifications: ASTM A193/A193M-07 B7-ASME II PART "A" ED,2007 SA 193 B7	ing to the 1 37-ASME II	following specifi : PART "A" ED.2		tment QUENCE	Heat treatment QUENCHED AND TEMPERED 593°C ms: SA 193 B7	ပ _{ို့ရ}		
Mechanical Properties	R Mpa	Rs 0.2 Mpa	A% 2	Z% HB	HB 24h Impact test	oact test	Proof	Proof Load Impact test
Required MIN 860 Actual 1005	MIN 860 1005	MIN 720 860	MIN 16 A	MIN 50 MAX 321 57 3 300				min med J. temp .C
Chemical C Mn Si P S Ni Cr Mo Y Ti Al Properties Actual .450 .820 .210 .006 .025 .970 .180 .VISUAL AND DIMENSIONAL TESTISATISFACTORY. WE STATE THAT THE BOLITING MATERIAL WERE MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE SPECIFICATION AND	C	Mn .820 .WE STATE THAT THI	Si Si 210	P S .005 .025 ML WERE MANUFACTURE	Ni Cr .970 ED, SAMPLED, TESTED AND INS	Mo .180 PECTED IN ACCORDA	Ti INCE WITH THE SPI	AI B ECIFICATION AND
HEAVY HEX NUT h=D ANSI B18.2.2 Tab 9 A/SA 194 2H 5/8"-11UNC Qty 350	VSI B18.2.2	Tab 9 A/SA 19	4 2H 5/8"-11UN Qhy 350	AC Order FAX Item	H 5/8"-11UNC Order FAX Date 27/04/10 Heat LC	10 Heat LOT 613171 1089	E REQUIREMENTS. Heat LOT 613171 1089999	RDC

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RDC	819093				Impact 1	ed J Temi	-		¥	•	TFICATION
LOT	1089999	1			Proof Load Impact test	min m	POSITIVE	POSITIVE	F	•	WITH THE SPEC
Heat LOT	513171 1089999					Temp °C	ູ່ວ		>	•	ACCORDANCE REQUIREMENT
Date 27/04/10 H	9)) !	.M-5	HB 24h Impact test	min med Temp °C min med J Temp °C	MIN 248 MAX 327 MIN 179/540°C	291-301	Wo		ND INSPECTED IN
Date 27		TEMPERE		2007 Art	HB 24h	Ē	X 327		ঠ		D, TESTED AN
FAX		Heat treatment QUENCHED AND TEMPERED 455°C		/III Div 2 ED	至		MIN 248 MA	296-313	Z S	.029	R CONTACT AND
Order	Item	nent QUE	•	4-ASME V						6	VERE MANUFA
8"-11UNC	Qty 350	eat treatr	••	SA 194 21	%,7				۵.	.013	MATERIAL W
194 2H 5/		Ĭ	ifications	ED.2007	A%				ij	.310	THE BOLTING
HEAVY HEX NUT h=D ANSI B18.2.2 Tab 9 A/SA 194 2H 5/8"-11UNC Order FAX			The material is conforming to the following specifications:	ASTM A194/A194-07a GR.2H-ASME II PART "A" ED.2007 SA 194 2H-ASME VIII Div 2 ED2007 Art.M-5	Rs 0.2 Mpa		•	•	Wn	.520	VISUAL AND DIMENSIONAL TEST:SATISFACTORY.WE STATE THAT THE BOLTING MATERIAL WERE MANUFACTURED, SAMPLED. TESTED AND INSPECTED IN ACCORDANCE WITH THE SPECIFICATION AND ANY SUPPLEMENTARY REQUIREMENTS.
O ANSI B18.2.			orming to the	7a GR.2H-ASM	R Mpa		70		ပ	470	TEST:SATISFACTOR REMENTS OR OTHE
NOT hel			al is conf	/A194-07			Required	Actual	•	Actual	KENSIONAL TARY REQUIF
HEAVY HEX			The materic	ASTM A194.	Mechanical	Properties	4		Chemical	Properties Actual	VISUAL AND DIA ANY SUPPLEMENT

Quality Control Pepartement Balloneria Trevi srt