M.E.G.A.

INSPECTION CERTIFICATE

Certificato d'ispezione

REPORT N. / Rapporto N. TC-019212-16-0001	**Issued on** 31/01/2017 / **Revised on**	**Customer** / Cliente	PROVEEDORA DE MATERIALES ANCER SA DE CV, AV ADOLFO LOPEZ MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. - 66490, MEXICO	**Job n.** / Com. n. 19212	**Page n.**/ Pagina n. 1 of 8
Revision / Revisione 0	**According to** / In accordo a EN 10204:2004 UNI EN 10204:2005	**Type** / Tipo 3.1		**Purchase order and project**/Ordine e progetto 7902	

DESCRIPTION / DESCRIZIONE

Test / Prova	Item / Pos.	Qty / Q.tà	Customer code / Codice cliente	Material / Materiale	Heat / Colata	Product / Prodotto
SCTF	1	1000		A/SA105-14	228290	90 DEG. ELBOW S. 3000 NPT A/SA105N 1/4
JUAX	8	298		A/SA105-14	13/77967	45 DEG. ELBOW S. 3000 NPT A/SA105N 1
ZNAA	8	502		A/SA105-14	431807	45 DEG. ELBOW S. 3000 NPT A/SA105N 1
ZNAN	10	1020	*	A/SA105-14	244302	TEE S. 3000 NPT A/SA105N 1/2
YNNX	13	600		A/SA105-14	15/75888	TEE S. 3000 NPT A/SA105N 1.1/4

Test / Prova	HEAT TREATMENT DATA AND REFERENCES TO OTHER CERTIFICATES / Dettagli di trattamento termico e riferimenti ad altri certificati	RAW AND FORGING MATERIAL CERTIFICATES / Certificati di acciaieria/forgia
SCTF	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.000453.EVASI*
JUAX	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 880 C COOLED IN STILL AIR.	CERT.FC-004682-13-0021.MEGA/CERT.923.MEGA*
ZNAA	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.000500.EVASI*
ZNAN	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.000490.EVASI*
YNNX	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 880 C COOLED IN STILL AIR.	CERT.FC-005405-15-0002.MEGA/CERT.2256.MEGA*

Test / Prova	Test loc. / Preso a	Orient. / Direz.	TENSILE TEST AT ROOM TEMPERATURE / Trazione a tempertura ambiente						CVN (KV) / Prova di resilienza					Bend [B] Flatt. [F] / Piega Schiacc.	Hardness / Durezza
			Specimen / Provino			Yield strength	Tensile strength	Elongation	Red. Of Area	Dimens.	T	Abs. Energy	Shear A	Lat Exp	
			Shape / Forma	A [mm²] / Sezione	L [mm] / Lungh.	Snerv. [Mpa] Min:	Rottura [Mpa] Min:	Allung. [%] Min:	Contraz. [%] Min:	Dimens. [mm]	Temp. [°C]	Energia ass. [J]	Area d [%]	Esp. Lat. [mm]	
SCTF	T/2	LONG	Round	60.300	35.000	367.600	523.800	39.700	70.500	10x10x55	0	163-147-185	--	--	HBW 146-150
JUAX	T/2	LONG	Round	30.500	25.000	276.400	522.500	38.500	65.300	10x10x55	0	79-97-77	--	--	HBW 148-152
ZNAA	T/2	LONG	Round	30.800	25.000	319.000	518.000	33.900	65.900	10x10x55	-10	65-50-47	--	--	HBW 145-148
ZNAN	T/2	LONG	Round	121.500	50.000	314.200	489.200	34.600	71.800	10x10x55	-10	177-194-181	85-90-85	1.83-1.95-1.84	HBW 148-149
YNNX	T/2	LONG	Round	59.500	35.000	306.300	494.200	31.800	62.300	10x10x55	0	106-114-123	--	--	HBW 140-145

Test / Prova	C [%]	Si [%]	Mn [%]	S [%]	P [%]	Cr [%]	Ni [%]	Mo [%]	Ti [%]	Cu [%]	V [%]	Al [%]	H [%]	Nb [%]	N [%]	Sn [%]	O [%]	B [%]	Fe [%]	Zr [%]	CE[A] [%]	PREN[B] [%]	X fact.[C] [%]	J fact.[D] [%]
SCTF	0.1600	0.1840	1.0230	0.0040	0.0070	0.0940	0.1440	0.0370		0.1600	0.0030	0.0310	0.00016	0.0010	0.0119	0.0100	0.0018				0.3775			
JUAX	0.1950	0.2500	1.0100	0.0030	0.0150	0.1500	0.0800	0.0100	0.0200	0.1900	0.0020	0.0280	0.00025	0.0010	0.0096	0.0090	0.0016				0.4137			
ZNAA	0.1550	0.2200	1.0000	0.0020	0.0090	0.2000	0.0800	0.0200	0.0020	0.1100	0.0030	0.0190	0.00009	0.0040	0.0051	0.0070	0.0014				0.3789			
ZNAN	0.1640	0.2000	1.0270	0.0030	0.0070	0.1190	0.0910	0.0160	0.0120	0.0830	0.0030	0.0230	0.00015	0.0010	0.0088	0.0050	0.0016				0.3743			
YNNX	0.1850	0.1700	1.0500	0.0010	0.0090	0.0900	0.0700	0.0100	0.0150	0.1400	0.0020	0.0250	0.00018	0.0030	0.0099	0.0100	0.0018	0.0003			0.3944			

REMARKS / Note

1: MATERIAL ACCORDING TO NACE MR0175/ISO 15156-1-2-3 Ed.2009
2: MATERIAL ACCORDING TO ASME Sect. II Part. A 2015 Edition.
3: FULLY KILLED STEEL, FINE GRAIN TREATED.

A: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15 | B: PREN = Cr + 3.3Mo + 16N
C: X factor = (10P + 5Sb+4Sn+As)/100 - elements expressed in ppm
D: J factor = ((Mn + Si)(P + Sn)) x 10E4

Additional elements: 'ZNAA': Co 0,0070 Ca 0,0010 As 0,0050 Sb 0,0010 |

Quality inspector representative / Ispettore controllo qualità

Riccardo Scorsetti

This certificate is issued by a computerized system and it is valid with electronic signature. On the original certificate the trademark M.E.G.A. is printed in green color.

Form QC-01-01 Rev. 0 2013-03-15

M.E.G.A.

INSPECTION CERTIFICATE
Certificato d'ispezione

REPORT N. / Rapporto N.	TC-019212-16-0001	Issued on	31/01/2017	Customer / Cliente	PROVEEDORA DE MATERIALES ANCER SA DE CV, AV ADOLFO LOPEZ MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. - 66490, MEXICO	Job n. / Com. n.	19212	Page n./ Pagina n.	2 of 8
		Revised on				Purchase order and project/Ordine e progetto	7902		
Revision / Revisione	0	According to / In accordo a	EN 10204:2004 UNI EN 10204:2005	Type / Tipo	3.1				

DESCRIPTION / DESCRIZIONE

Test / Prova	Item / Pos.	Qty / Q.tà	Customer code / Codice cliente	Material / Materiale	Heat / Colata	Product / Prodotto
ZNCB	15	500		A/SA105-14	238884	TEE S. 3000 NPT A/SA105N 2
YRUC	17	1000	*	A/SA105-14	15/75960	UNION S. 3000 NPT A/SA105N 1/2 male
YRUC	17	1000	*	A/SA105-14	15/75960	UNION S. 3000 NPT A/SA105N 1/2 female
YRUC	17	1000	*	A/SA105-14	15/75960	UNION S. 3000 NPT A/SA105N 1/2 nut
JBAX	20	2100		A/SA105-14	13/75629	COUPLING S. 3000 NPT A/SA105N 1/4

Test / Prova	**HEAT TREATMENT DATA AND REFERENCES TO OTHER CERTIFICATES** / Dettagli di trattamento termico e riferimenti ad altri certificati	**RAW AND FORGING MATERIAL CERTIFICATES** / Certificati di acciaieria/forgia
ZNCB	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.000575.EVASI*
YRUC	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.2016/0010191.FEAT*
YRUC	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.2016/0010192.FEAT*
YRUC	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.2016/0010206.FEAT*
JBAX	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.15875.RIVA*

Test / Prova	Test loc. / Preso a	Orient. / Direz.	TENSILE TEST AT ROOM TEMPERATURE / Trazione a tempertura ambiente — Specimen / Provino: Shape / Forma	A [mm²] / Sezione	L [mm] / Lungh.	Yield strength / Snerv. [Mpa] Min:	Tensile strength / Rottura [Mpa] Min:	Elongation / Allung. [%] Min:	Red. Of Area / Contraz. [%] Min:	CVN (KV) / Prova di resilienza — Dimens. / Dimens. [mm]	T / Temp. [°C]	Abs. Energy / Energia ass. [J]	Shear A / Area d [%]	Lat Exp / Esp. Lat. [mm]	Bend [B] Flatt. [F] / Piega Schiacc.	Hardness / Durezza
ZNCB	T/2	LONG	Round	122.700	50.000	308.000	495.500	34.200	69.500	10x10x55	-10	85-100-63	40-50-35	1.02-1.15-0.85		HBW 146-147
YRUC	T/2	LONG	Round	124.900	50.000	349.600	546.400	31.500	70.300	10x10x55	-1	160-183-165	75-90-80	1.74-1.88-1.79		HBW 160-162
YRUC	T/2	LONG	Round	124.900	50.000	349.600	546.400	31.500	70.300	10x10x55	-1	160-183-165	75-90-80	1.74-1.88-1.79		HBW 160-162
YRUC	T/2	LONG	Round	124.900	50.000	349.600	546.400	31.500	70.300	10x10x55	-1	160-183-165	75-90-80	1.74-1.88-1.79		HBW 160-162
JBAX	T/2	LONG	Round	30.300	25.000	384.100	555.400	40.900	69.300	10x10x55	0	153-182-174	--	--		HBW 160-162

Test / Prova	C [%]	Si [%]	Mn [%]	S [%]	P [%]	Cr [%]	Ni [%]	Mo [%]	Ti [%]	Cu [%]	V [%]	Al [%]	H [%]	Nb [%]	N [%]	Sn [%]	O [%]	B [%]	Fe [%]	Zr [%]	CE[A] [%]	PREN[B] [%]	X fact.[C] [%]	J fact.[D] [%]
ZNCB	0.1650	0.2200	0.9500	0.0020	0.0120	0.2000	0.1100	0.0200	0.0020	0.1500	0.0050	0.0170	0.00009	0.0020	0.0040	0.0080	0.0014				0.3856			
YRUC	0.1900	0.2300	1.0100	0.0030	0.0140	0.1700	0.0600	0.0100	0.0180	0.1700	0.0010	0.0250	0.00018	0.0020	0.0095	0.0110	0.0017				0.4098			
YRUC	0.1900	0.2300	1.0100	0.0030	0.0140	0.1700	0.0600	0.0100	0.0180	0.1700	0.0010	0.0250	0.00018	0.0020	0.0095	0.0110	0.0017				0.4098			
YRUC	0.1900	0.2300	1.0100	0.0030	0.0140	0.1700	0.0600	0.0100	0.0180	0.1700	0.0010	0.0250	0.00018	0.0020	0.0095	0.0110	0.0017				0.4098			
JBAX	0.1900	0.2300	0.9400	0.0070	0.0150	0.1200	0.0500	0.0100	0.0200	0.1400	0.0030	0.0260		0.0030		0.0080					0.3859			

REMARKS / Note

1: MATERIAL ACCORDING TO NACE MR0175/ISO 15156-1-2-3 Ed.2009
2: MATERIAL ACCORDING TO ASME Sect. II Part. A 2015 Edition.
3: FULLY KILLED STEEL, FINE GRAIN TREATED.

A: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15 | B: PREN = Cr + 3.3Mo + 16N
C: X factor = (10P + 5Sb+4Sn+As)/100 - elements expressed in ppm
D: J factor = ((Mn + Si)(P + Sn)) x 10E4

Additional elements: 'ZNCB': As 0,0070 Sb 0,0010 |

Quality inspector representative
Ispettore controllo qualità

Riccardo Scorsetti

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Form QC-01-01 Rev. 0 2013-03-15

M.E.G.A.

INSPECTION CERTIFICATE

Certificato d'ispezione

REPORT N. / Rapporto N.	TC-019212-16-0001	**Issued on** 31/01/2017 / **Revised on**	**Customer** / Cliente	PROVEEDORA DE MATERIALES ANCER SA DE CV, AV ADOLFO LOPEZ MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. - 66490, MEXICO	**Job n.** / Com. n. 19212 — **Page n.**/ Pagina n. 3 of 8
Revision / Revisione	0	**According to** / In accordo a: EN 10204:2004, UNI EN 10204:2005 — **Type** / Tipo: 3.1			**Purchase order and project**/Ordine e progetto: 7902

DESCRIPTION / DESCRIZIONE

Test / Prova	Item / Pos.	Qty / Q.tà	Customer code / Codice cliente	Material / Materiale	Heat / Colata	Product / Prodotto
YABC	21	2000		A/SA105-14	14/79164	COUPLING S. 3000 NPT A/SA105N 3/8
YTCD	27	300		A/SA105-14	15/75879	CAP S. 3000 NPT A/SA105N 1/2
YUSA	28	800	*	A/SA105-14	15/76767	CAP S. 3000 NPT A/SA105N 3/4
YTBS	29	500		A/SA105-14	15/75956	CAP S. 3000 NPT A/SA105N 1
YTCC	33	1000	*	A/SA105-14	BA5746	BUSHING M/F NPT A/SA105N 3/4x1/2

Test / Prova	**HEAT TREATMENT DATA AND REFERENCES TO OTHER CERTIFICATES** / Dettagli di trattamento termico e riferimenti ad altri certificati	**RAW AND FORGING MATERIAL CERTIFICATES** / Certificati di acciaieria/forgia
YABC	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.28528.RIVA*(VACUUM DEGASED STEEL)
YTCD	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.43431.RIVA*(VACUUM DEGASED STEEL)
YUSA	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.48358.RIVA*(VACUUM DEGASED STEEL)
YTBS	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.42267.RIVA*(VACUUM DEGASED STEEL)
YTCC	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.094391.RODACCIAI*

Test / Prova	Test loc. / Preso a	Orient. / Direz.	**TENSILE TEST AT ROOM TEMPERATURE** / Trazione a tempertura ambiente						**CVN (KV)** / Prova di resilienza					**Bend [B] Flatt. [F]** / Piega Schiacc.	**Hardness** / Durezza
			Specimen / Provino			**Yield strength**	**Tensile strength**	**Elongation**	**Red. Of Area**	**Dimens.**	**T**	**Abs. Energy**	**Shear A**	**Lat Exp**	
			Shape / Forma	**A [mm²]** / Sezione	**L [mm]** / Lungh.	Snerv. [Mpa] **Min:**	Rottura [Mpa] **Min:**	Allung. [%] **Min:**	Contraz. [%] **Min:**	Dimens. [mm]	Temp. [°C]	Energia ass. **[J]**	Area d [%]	Esp. Lat. **[mm]**	
YABC	T/2	LONG	Round	122.700	50.000	403.200	546.200	35.000	69.500	10x10x55	0	174-169-173	--	--	HBW 158-163
YTCD	T/2	LONG	Round	122.900	50.000	389.400	552.700	34.900	71.200	10x10x55	0	194-184-188	--	--	HBW 153-156
YUSA	T/2	LONG	Round	123.700	50.000	336.300	516.400	37.900	68.100	10x10x55	0	200-199-208	--	--	HBW 153-155
YTBS	T/2	LONG	Round	122.300	50.000	386.800	552.300	38.400	72.900	10x10x55	0	201-190-177	--	--	HBW 165-168
YTCC	T/2	LONG	Round	122.600	50.000	348.800	552.200	40.200	66.400	10x10x55	-1	142-148-166	--	--	HBW 163-166

Test / Prova	C [%]	Si [%]	Mn [%]	S [%]	P [%]	Cr [%]	Ni [%]	Mo [%]	Ti [%]	Cu [%]	V [%]	Al [%]	H [%]	Nb [%]	N [%]	Sn [%]	O [%]	B [%]	Fe [%]	Zr [%]	CE[A] [%]	PREN[B] [%]	X fact.[C] [%]	J fact.[D] [%]
YABC	0.2000	0.1900	0.9500	0.0090	0.0150	0.1500	0.0800	0.0100	0.0190	0.2000	0.0030	0.0290	0.00022	0.0020	0.0087	0.0110	0.0020				0.4095			
YTCD	0.1850	0.2200	1.0400	0.0030	0.0140	0.1100	0.0600	0.0100	0.0180	0.2000	0.0020	0.0250	0.00018	0.0010	0.0094	0.0100	0.0013				0.4000			
YUSA	0.1850	0.2000	1.0500	0.0030	0.0100	0.0800	0.0500	0.0100	0.0180	0.1200	0.0020	0.0250	0.00016	0.0020	0.0097	0.0080	0.0016	0.0003			0.3897			
YTBS	0.1900	0.2400	1.0800	0.0060	0.0130	0.1200	0.0600	0.0100	0.0210	0.1500	0.0010	0.0280	0.00019	0.0010	0.0095	0.0090	0.0018				0.4102			
YTCC	0.1900	0.2000	0.9600	0.0210	0.0120	0.1100	0.0800	0.0200		0.1100	0.0020	0.0210									0.3890			

REMARKS / Note

1: MATERIAL ACCORDING TO NACE MR0175/ISO 15156-1-2-3 Ed.2009
2: MATERIAL ACCORDING TO ASME Sect. II Part. A 2015 Edition.
3: FULLY KILLED STEEL, FINE GRAIN TREATED.

A: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15 | B: PREN = Cr + 3.3Mo + 16N
C: X factor = (10P + 5Sb+4Sn+As)/100 - elements expressed in ppm
D: J factor = ((Mn + Si)(P + Sn)) x 10E4

Additional elements: 'YTBS': Ca 0,0007 |

Quality inspector representative / Ispettore controllo qualità

Riccardo Scorsetti

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Form QC-01-01 Rev. 0 2013-03-15

M.E.G.A.

INSPECTION CERTIFICATE

Certificato d'ispezione

REPORT N. / Rapporto N. TC-019212-16-0001	**Issued on** 31/01/2017 / **Revised on**	**Customer** / Cliente	PROVEEDORA DE MATERIALES ANCER SA DE CV, AV ADOLFO LOPEZ MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. - 66490, MEXICO	**Job n.** / Com. n. 19212	**Page n.**/ Pagina n. 4 of 8
Revision / Revisione 0	**According to** / In accordo a EN 10204:2004 UNI EN 10204:2005	**Type** / Tipo 3.1		**Purchase order and project**/Ordine e progetto 7902	

DESCRIPTION / DESCRIZIONE

Test / Prova	Item / Pos.	Qty / Q.tà	Customer code / Codice cliente	Material / Materiale	Heat / Colata	Product / Prodotto
SDDN	38	1000		A/SA105-14	237375	BUSHING M/F NPT A/SA105N 1.1/2x1
SRAX	43	60		A/SA105-14	13/78397	BUSHING M/F NPT A/SA105N 2.1/2x1.1/2
JLNL	49	3000		A/SA105-14	10/73677	HEX. HEAD PLUG NPT A/SA105N 3/4
JLNN	50	3000		A/SA105-14	12/72374	HEX. HEAD PLUG NPT A/SA105N 1
C6M	51	1000		A/SA105-14	021832	HEX. HEAD PLUG NPT A/SA105N 1.1/4

Test / Prova	**HEAT TREATMENT DATA AND REFERENCES TO OTHER CERTIFICATES** / Dettagli di trattamento termico e riferimenti ad altri certificati	**RAW AND FORGING MATERIAL CERTIFICATES** / Certificati di acciaieria/forgia
SDDN	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.000615.EVASI*
SRAX	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 880 C COOLED IN STILL AIR.	CERT.FC-004978-14-0013.MEGA/CERT.1383.MEGA*
JLNL	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.34823.RIVA*
JLNN	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.18932.RIVA*
C6M	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.1946.87 BABCOCK-WILCOX*

Test / Prova	Test loc. / Preso a	Orient. / Direz.	**TENSILE TEST AT ROOM TEMPERATURE** / Trazione a tempertura ambiente						**CVN (KV)** / Prova di resilienza					Bend [B] Flatt. [F] / Piega Schiacc.	Hardness / Durezza
			Specimen / Provino			Yield strength	Tensile strength	Elongation	Red. Of Area	Dimens.	T	Abs. Energy	Shear A	Lat Exp		
			Shape / Forma	A [mm²] / Sezione	L [mm] / Lungh.	Snerv. [Mpa] Min:	Rottura [Mpa] Min:	Allung. [%] Min:	Contraz. [%] Min:	Dimens. [mm]	Temp. [°C]	Energia ass. [J]	Area d [%]	Esp. Lat. [mm]		
SDDN	T/2	LONG	Round	59.700	35.000	333.800	515.900	38.600	74.700	10x10x55	0	202-155-177	--	--		HBW 151-152
SRAX	T/2	LONG	Round	30.400	25.000	290.100	496.300	33.400	72.500	10x10x55	-1	120-118-109	--	--		HBW 142-144
JLNL	T/2	LONG	Round	122.300	50.000	390.200	540.400	32.100	66.100	10x10x55	-1	116-118-121	--	--		HBW 152-156
JLNN	T/2	LONG	Round	122.300	50.000	298.400	497.000	34.700	64.500	10x10x55	-1	120-100-98	--	--		HBW 143-146
C6M	T/2	LONG	Round	60.100	50.000	347.000	527.000	30.500	58.900	10x10x55	0	50-52-52	--	--		HBW 159-161

Test / Prova	C [%]	Si [%]	Mn [%]	S [%]	P [%]	Cr [%]	Ni [%]	Mo [%]	Ti [%]	Cu [%]	V [%]	Al [%]	H [%]	Nb [%]	N [%]	Sn [%]	O [%]	B [%]	Fe [%]	Zr [%]	CE[A] [%]	PREN[B] [%]	X fact.[C] [%]	J fact.[D] [%]
SDDN	0.1610	0.2110	1.0110	0.0060	0.0060	0.1080	0.1580	0.0310		0.1570	0.0050	0.0260	0.00014	0.0050	0.0112	0.0070	0.0018				0.3793			
SRAX	0.1900	0.2100	1.0000	0.0080	0.0140	0.0800	0.0800	0.0100	0.0190	0.1900	0.0030	0.0290	0.00024	0.0020	0.0090	0.0100	0.0018				0.3932			
JLNL	0.1800	0.2100	0.8700	0.0090	0.0080	0.1000	0.0700	0.0200	0.0150	0.2100	0.0200	0.0240		0.0020		0.0110					0.3716			
JLNN	0.2000	0.2000	0.9000	0.0090	0.0120	0.0900	0.0400	0.0100	0.0200	0.1700	0.0200	0.0250		0.0020		0.0080					0.3880			
C6M	0.2000	0.2750	0.9400	0.0140	0.0290	0.0800	0.0800	0.0200		0.1000	0.0010			0.0080							0.3888			

REMARKS / Note

1: MATERIAL ACCORDING TO NACE MR0175/ISO 15156-1-2-3 Ed.2009
2: MATERIAL ACCORDING TO ASME Sect. II Part. A 2015 Edition.
3: FULLY KILLED STEEL, FINE GRAIN TREATED.

A: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15 | B: PREN = Cr + 3.3Mo + 16N
C: X factor = (10P + 5Sb+4Sn+As)/100 - elements expressed in ppm
D: J factor = ((Mn + Si)(P + Sn)) x 10E4

Additional elements:

Quality inspector representative / Ispettore controllo qualità

Riccardo Scorsetti

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Form QC-01-01 Rev. 0 2013-03-15

M.E.G.A.

INSPECTION CERTIFICATE

Certificato d'ispezione

REPORT N. / Rapporto N. TC-019212-16-0001	**Issued on** 31/01/2017 / **Revised on**	**Customer** / Cliente	PROVEEDORA DE MATERIALES ANCER SA DE CV, AV ADOLFO LOPEZ MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. - 66490, MEXICO	**Job n.** / Com. n. 19212	**Page n.**/ Pagina n. 5 of 8
Revision / Revisione 0	**According to** / In accordo a EN 10204:2004 UNI EN 10204:2005	**Type** / Tipo 3.1		**Purchase order and project**/Ordine e progetto 7902	

DESCRIPTION / DESCRIZIONE

Test / Prova	Item / Pos.	Qty / Q.tà	Customer code / Codice cliente	Material / Materiale	Heat / Colata	Product / Prodotto
1BLD	52	1020		A/SA105-14	020573	HEX. HEAD PLUG NPT A/SA105N 1.1/2
ZNAS	57	4000	*	A/SA105-14	244302	90 DEG. ELBOW S. 3000 SW A/SA105N 3/4
YRAX	60	2974		A/SA105-14	15/77185	90 DEG. ELBOW S. 3000 SW A/SA105N 1.1/2
YUDU	60	2030		A/SA105-14	431812	90 DEG. ELBOW S. 3000 SW A/SA105N 1.1/2
YTLL	63	325		A/SA105-14	14/71264	45 DEG. ELBOW S. 3000 SW A/SA105N 3/4

Test / Prova	**HEAT TREATMENT DATA AND REFERENCES TO OTHER CERTIFICATES** / Dettagli di trattamento termico e riferimenti ad altri certificati	**RAW AND FORGING MATERIAL CERTIFICATES** / Certificati di acciaieria/forgia
1BLD	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.9157.91 RODACCIAI*
ZNAS	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.000466.EVASI*
YRAX	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 880 C COOLED IN STILL AIR.	CERT.FC-005329-15-0014.MEGA/CERT.2437.MEGA*
YUDU	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.000284.EVASI*
YTLL	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 880 C COOLED IN STILL AIR.	CERT.FC-005494-15-0008.MEGA/CERT.3108.MEGA*

Test / Prova	Test loc. / Preso a	Orient. / Direz.	**TENSILE TEST AT ROOM TEMPERATURE** / Trazione a tempertura ambiente						**CVN (KV)** / Prova di resilienza					Bend [B] Flatt. [F] / Piega Schiacc.	Hardness / Durezza
			Specimen / Provino			Yield strength	Tensile strength	Elongation	Red. Of Area	Dimens.	T	Abs. Energy	Shear A	Lat Exp		
			Shape / Forma	A [mm²] / Sezione	L [mm] / Lungh.	Snerv. [Mpa] Min:	Rottura [Mpa] Min:	Allung. [%] Min:	Contraz. [%] Min:	Dimens. [mm]	Temp. [°C]	Energia ass. [J]	Area d [%]	Esp. Lat. [mm]		
1BLD	T/2	LONG	Round	122.600	50.000	400.000	550.000	29.000	63.000	10x10x55	0	46-48-54	--	--		HBW 156-160
ZNAS	T/2	LONG	Round	121.400	50.000	306.200	487.800	34.400	73.100	10x10x55	-10	182-153-167	85-75-80	1.89-1.69-1.79		HBW 148-149
YRAX	T/2	LONG	Round	125.100	50.000	308.400	506.100	33.100	66.300	10x10x55	-1	60-76-69	--	--		HBW 150-151
YUDU	T/2	LONG	Round	61.000	35.000	293.400	490.300	33.400	63.500	10x10x55	-1	86-142-111	45-70-55	1.12-1.60-1.36		HBW 141-144
YTLL	T/2	LONG	Round	29.800	25.000	329.900	502.800	24.700	47.800	10x10x55	-10	71-88-69	35-45-35	0.95-1.12-0.93		HBW 152-154

Test / Prova	C [%]	Si [%]	Mn [%]	S [%]	P [%]	Cr [%]	Ni [%]	Mo [%]	Ti [%]	Cu [%]	V [%]	Al [%]	H [%]	Nb [%]	N [%]	Sn [%]	O [%]	B [%]	Fe [%]	Zr [%]	CE[A] [%]	PREN[B] [%]	X fact.[C] [%]	J fact.[D] [%]
1BLD	0.2100	0.2680	0.9510	0.0100	0.0200	0.1230	0.0100	0.0050		0.0160	<0.0800										0.3958			
ZNAS	0.1640	0.2000	1.0270	0.0030	0.0070	0.1190	0.0910	0.0160	0.0120	0.0830	0.0030	0.0230	0.00015	0.0010	0.0088	0.0050	0.0016				0.3743			
YRAX	0.1800	0.1900	1.0500	0.0070	0.0150	0.1100	0.0500	0.0100	0.0150	0.1500	0.0030	0.0200	0.00020	0.0010	0.0100	0.0080	0.0018				0.3929			
YUDU	0.1680	0.1900	0.9800	0.0020	0.0060	0.2100	0.0800	0.0200	0.0020	0.1100	0.0040	0.0190	0.00009	0.0030	0.0057	0.0080	0.0014				0.3907			
YTLL	0.2000	0.2100	0.9700	0.0030	0.0130	0.1100	0.0400	0.0200	0.0200	0.1400	0.0030	0.0340	0.00019	0.0020	0.0089	0.0100	0.0011				0.4002			

REMARKS / Note

1: MATERIAL ACCORDING TO NACE MR0175/ISO 15156-1-2-3 Ed.2009
2: MATERIAL ACCORDING TO ASME Sect. II Part. A 2015 Edition.
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A: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15 | B: PREN = Cr + 3.3Mo + 16N
C: X factor = (10P + 5Sb+4Sn+As)/100 - elements expressed in ppm
D: J factor = ((Mn + Si)(P + Sn)) x 10E4

Additional elements: 'YUDU': Co 0,0060 Ca 0,0010 As 0,0040 Sb 0,0010 |

Quality inspector representative / Ispettore controllo qualità

Riccardo Scorsetti

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Form QC-01-01 Rev. 0 2013-03-15

M.E.G.A.

INSPECTION CERTIFICATE

Certificato d'ispezione

REPORT N. / Rapporto N. TC-019212-16-0001	**Issued on** 31/01/2017 / **Revised on**	**Customer** / Cliente	PROVEEDORA DE MATERIALES ANCER SA DE CV, AV ADOLFO LOPEZ MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. - 66490, MEXICO	**Job n.** / Com. n. 19212	**Page n.**/ Pagina n. 6 of 8
Revision / Revisione 0	**According to** / In accordo a EN 10204:2004 UNI EN 10204:2005	**Type** / Tipo 3.1		**Purchase order and project**/Ordine e progetto 7902	

DESCRIPTION / DESCRIZIONE

Test / Prova	Item / Pos.	Qty / Q.tà	Customer code / Codice cliente	Material / Materiale	Heat / Colata	Product / Prodotto
YUCX	64	520		A/SA105-14	237928	45 DEG. ELBOW S. 3000 SW A/SA105N 1
YNNX	70	1000		A/SA105-14	15/75888	TEE S. 3000 SW A/SA105N 1.1/2
SDAL	73	500	*	A/SA105-14	231752	UNION S. 3000 SW A/SA105N 1.1/4 male
SDAL	73	500	*	A/SA105-14	231752	UNION S. 3000 SW A/SA105N 1.1/4 female
JLUF	73	500	*	A/SA105-14	13/76057	UNION S. 3000 SW A/SA105N 1.1/4 nut

Test / Prova	**HEAT TREATMENT DATA AND REFERENCES TO OTHER CERTIFICATES** / Dettagli di trattamento termico e riferimenti ad altri certificati	**RAW AND FORGING MATERIAL CERTIFICATES** / Certificati di acciaieria/forgia
YUCX	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.000223.EVASI*
YNNX	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 880 C COOLED IN STILL AIR.	CERT.FC-005405-15-0002.MEGA/CERT.2256.MEGA*
SDAL	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.000182.EVASI*
SDAL	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.000182.EVASI*
JLUF	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.000174.EVASI*

Test / Prova	Test loc. / Preso a	Orient. / Direz.	**TENSILE TEST AT ROOM TEMPERATURE** / Trazione a tempertura ambiente						**CVN (KV)** / Prova di resilienza					Bend [B] Flatt. [F] / Piega Schiacc.	Hardness / Durezza
			Specimen / Provino			Yield strength	Tensile strength	Elongation	Red. Of Area	Dimens.	T	Abs. Energy	Shear A	Lat Exp		
			Shape / Forma	A [mm²] / Sezione	L [mm] / Lungh.	Snerv. [Mpa] Min:	Rottura [Mpa] Min:	Allung. [%] Min:	Contraz. [%] Min:	Dimens. [mm]	Temp. [°C]	Energia ass. [J]	Area d [%]	Esp. Lat. [mm]		
YUCX	T/2	LONG	Round	30.600	25.000	321.100	491.600	34.200	66.300	10x10x55	-1	55-62-66	30-30-35	0.60-0.62-0.64		HBW 155-160
YNNX	T/2	LONG	Round	59.500	35.000	306.300	494.200	31.800	62.300	10x10x55	0	106-114-123	--	--		HBW 140-145
SDAL	T/2	LONG	Round	30.400	25.000	315.100	542.600	34.800	65.200	10x10x55	0	75-71-60	--	--		HBW 145-149
SDAL	T/2	LONG	Round	30.400	25.000	315.100	542.600	34.800	65.200	10x10x55	0	75-71-60	--	--		HBW 145-149
JLUF	T/2	LONG	Round	30.600	25.000	320.000	539.000	29.100	66.900	10x10x55	0	48-58-60	--	--		HBW 151-161

Test / Prova	C [%]	Si [%]	Mn [%]	S [%]	P [%]	Cr [%]	Ni [%]	Mo [%]	Ti [%]	Cu [%]	V [%]	Al [%]	H [%]	Nb [%]	N [%]	Sn [%]	O [%]	B [%]	Fe [%]	Zr [%]	CE[A] [%]	PREN[B] [%]	X fact.[C] [%]	J fact.[D] [%]
YUCX	0.1660	0.1850	1.0420	0.0020	0.0070	0.0710	0.1050	0.0150		0.1360	0.0050	0.0260	0.00015	0.0020	0.0077	0.0070	0.0018				0.3739			
YNNX	0.1850	0.1700	1.0500	0.0010	0.0090	0.0900	0.0700	0.0100	0.0150	0.1400	0.0020	0.0250	0.00018	0.0030	0.0099	0.0100	0.0018	0.0003			0.3944			
SDAL	0.1660	0.1850	1.0210	0.0020	0.0090	0.1080	0.2050	0.0360		0.1650	0.0040	0.0280	0.00014	0.0040	0.0108	0.0080	0.0018				0.3904			
SDAL	0.1660	0.1850	1.0210	0.0020	0.0090	0.1080	0.2050	0.0360		0.1650	0.0040	0.0280	0.00014	0.0040	0.0108	0.0080	0.0018				0.3904			
JLUF	0.1800	0.2100	0.8500	0.0100	0.0140	0.1500	0.0600	0.0100	0.0160	0.1800	0.0210	0.0220		0.0010		0.0080					0.3738			

REMARKS / Note

1: MATERIAL ACCORDING TO NACE MR0175/ISO 15156-1-2-3 Ed.2009
2: MATERIAL ACCORDING TO ASME Sect. II Part. A 2015 Edition.
3: FULLY KILLED STEEL, FINE GRAIN TREATED.

A: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15 | B: PREN = Cr + 3.3Mo + 16N
C: X factor = (10P + 5Sb+4Sn+As)/100 - elements expressed in ppm
D: J factor = ((Mn + Si)(P + Sn)) x 10E4

Additional elements: 'SDAL': As 0,0060 |

Quality inspector representative / Ispettore controllo qualità

Riccardo Scorsetti

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Form QC-01-01 Rev. 0 2013-03-15

M.E.G.A.

INSPECTION CERTIFICATE

Certificato d'ispezione

REPORT N. / Rapporto N. TC-019212-16-0001	**Issued on** 31/01/2017 / **Revised on**	**Customer** / Cliente	PROVEEDORA DE MATERIALES ANCER SA DE CV, AV ADOLFO LOPEZ MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. - 66490, MEXICO	**Job n.** / Com. n. 19212	**Page n.**/ Pagina n. 7 of 8
Revision / Revisione 0	**According to** / In accordo a EN 10204:2004 UNI EN 10204:2005	**Type** / Tipo 3.1		**Purchase order and project**/Ordine e progetto 7902	

DESCRIPTION / DESCRIZIONE

Test / Prova	Item / Pos.	Qty / Q.tà	Customer code / Codice cliente	Material / Materiale	Heat / Colata	Product / Prodotto
ZAXD	75	2000		A/SA105-14	16/78536	COUPLING S. 3000 SW A/SA105N 1
JAUD	76	585	*	A/SA105-14	111788	COUPLING S. 3000 SW A/SA105N 1.1/4
JCCX	76	415	*	A/SA105-14	113004	COUPLING S. 3000 SW A/SA105N 1.1/4

Test / Prova	**HEAT TREATMENT DATA AND REFERENCES TO OTHER CERTIFICATES** / Dettagli di trattamento termico e riferimenti ad altri certificati	**RAW AND FORGING MATERIAL CERTIFICATES** / Certificati di acciaieria/forgia
ZAXD	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	CERT.19749.RIVA*(VACUUM DEGASED STEEL)
JAUD	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR.	CERT.313970/1.TUBOS REUNIDOS*
JCCX	MATERIAL PRODUCED BY ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR.	CERT.317926/2.TUBOS REUNIDOS*

Test / Prova	Test loc. / Preso a	Orient. / Direz.	**TENSILE TEST AT ROOM TEMPERATURE** / Trazione a tempertura ambiente						**CVN (KV)** / Prova di resilienza					**Bend [B] Flatt. [F]** / Piega Schiacc.	**Hardness** / Durezza
			Specimen / Provino			**Yield strength**	**Tensile strength**	**Elongation**	**Red. Of Area**	**Dimens.**	**T**	**Abs. Energy**	**Shear A**	**Lat Exp**	
			Shape / Forma	**A [mm²]** / Sezione	**L [mm]** / Lungh.	Snerv. [Mpa] **Min:**	Rottura [Mpa] **Min:**	Allung. [%] **Min:**	Contraz. [%] **Min:**	Dimens. [mm]	Temp. [°C]	Energia ass. **[J]**	Area d [%]	Esp. Lat. **[mm]**	
ZAXD	T/2	LONG	Round	124.900	50.000	381.100	546.600	32.400	67.700	10x10x55	-1	150-169-172	75-85-85	1.66-1.80-1.81	HBW 164-167
JAUD	T/2	LONG	Round	30.500	25.000	319.400	517.300	38.800	71.300	10x10x55	0	189-139-125	--	--	HBW 170-172
JCCX	T/2	LONG	Round	30.300	25.000	298.000	510.900	38.900	72.300	10x10x55	0	158-208-162	--	--	HBW 146-148

Test / Prova	C [%]	Si [%]	Mn [%]	S [%]	P [%]	Cr [%]	Ni [%]	Mo [%]	Ti [%]	Cu [%]	V [%]	Al [%]	H [%]	Nb [%]	N [%]	Sn [%]	O [%]	B [%]	Fe [%]	Zr [%]	CE[A] [%]	PREN[B] [%]	X fact.[C] [%]	J fact.[D] [%]
ZAXD	0.2000	0.2100	0.9900	0.0100	0.0150	0.1200	0.0700	0.0100	0.0160	0.1900	0.0020	0.0250	0.00017	0.0020	0.0095	0.0100	0.0012				0.4087			
JAUD	0.1800	0.2600	0.8300	0.0031	0.0140	0.0770	0.0750	0.0210		0.1810	0.0020			0.0010				0.0001			0.3553			
JCCX	0.1700	0.2400	0.8300	0.0039	0.0080	0.1100	0.1060	0.0374		0.1731	0.0013			0.0002				0.0001			0.3566			

REMARKS / Note

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A: CE = C + Mn/6 + (Cr+Mo+V)/5 + (Cu+Ni)/15 | B: PREN = Cr + 3.3Mo + 16N
C: X factor = (10P + 5Sb+4Sn+As)/100 - elements expressed in ppm
D: J factor = ((Mn + Si)(P + Sn)) x 10E4

Additional elements:

Quality inspector representative / Ispettore controllo qualità

Riccardo Scorsetti

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Form QC-01-01 Rev. 0 2013-03-15

M.E.G.A.

INSPECTION CERTIFICATE

Certificato d'ispezione

REPORT N. Rapporto N.	TC-019212-16-0001	**Issued on** 31/01/2017 **Revised on**		**Customer** Cliente	PROVEEDORA DE MATERIALES ANCER SA DE CV, AV ADOLFO LOPEZ MATEOS 150, COL LAGRANGE, SAN NICOLAS DE LOS GARZA, N.L. - 66490, MEXICO	**Job n.** / Com. n. **19212**	**Page n.**/ Pagina n. 8 of 8
Revision Revisione	0	**According to** In accordo a	EN 10204:2004 UNI EN 10204:2005	**Type** Tipo	3.1	**Purchase order and project**/Ordine e progetto **7902**	

We hereby certify that all items supplied for the above purchase orders meet all the requirements of the applicable specification of manufacture, the purchase item descriptions, purchase specifications and purchase order requirements. Visual, dimensional and marking check of items supplied has been carried out by our internal inspectors with satisfactory results.

The chemical and mechanical values shown on the EN 10204 certificate are true copy of the mill test certificate issued by the steel mill, or by the laboratory that determined it. All material is certified to be mercury free and free from radioactivity contamination. No weld repair was performed. Marking was performed by low stress stamps in accordance with MSS SP25.
Manufacturing standards:
- 45° and 90° elbows, tees, crosses, full and half couplings, caps, square, hexagonal and round plugs, hexagonal and flush bushings are manufactured in accordance with ASMEB.16.11; threads in accordance with ANSI/ASME B1.20.1.
- Outlet branches are manufactured in accordance with: ASME B.31.1, B.31.3 and MSS-SP-97
- Seamless swage nipples are manufactured in accordance with: BS3799-74 or MSS SP95-86
- Seamless pipe nipples are manufactured in accordance with: B36.10-95 or B36.19-85
- Flanged outlet branches are manufactured in accordance with: ASME B.31.1, B.31.3 and B.16.5
- Unions are manufactured in accordance with: BS 3799 or MSS SP-83

When the length of flanged nipolet is not specified in the description, it is 150 mm.
The material is according to ASTM and ASME Boiler and Pressure Vessel Code Section II.
When the Edition/Revision of the listed standards is not mentioned, it is assumed to be the latest.

Yield strength detected by 0.2% off-set method
Austenitic and duplex stainless steels have been pickled and passivated. Machined surfaces do not require pickling and passivation.

M.E.G.A. is approved with certificate 75/2002/MUC by T.U.V. (certification Body N.0036) to issue certificate of specific product control in accordance with the Pressure Equipment Directive 97/23/EC (PED) Annex 1, Paragraph 4.3.
Testing equipment used:
- Tensile test machine Galdabini Quasar 250 serial No. VAOG – Procedure MAC-03 Rev. 1
- Impact test Cermac JB-W500 serial No. 04031 – Procedure MAC-04 Rev. 1
- Brinell Hardness test Wolpert Dia Testor 2RC serial No. 8900298/0001 – Procedure MAC-05 Rev. 1
- Rockwell Hardness test EMCO Test DJ10 Serial No. 255 - Procedure MAC-06 Rev. 1
- Chemical analysis spectrometer Baird DV4 serial No. P017 (ASTM E415 and E1086) – Procedure QC-07 Rev. 0

The product are manufactured in Italy.

Quality inspector representative Ispettore controllo qualità	Riccardo Scorsetti

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Form QC-01-01 Rev. 0 2013-03-15