

M.E.G.A.

CLIENTE
Customer
Client

PROVEEDORA DE MATERIALES ANKER
SA DE CV
ALFONSO REYES 4030 NTE.
COL. DEL NTE. MONTERREY, N.L.

CERTIFICATO N. 551186 FOLIO 3
Certificate N. Sheet
Certificat N. Feuille

DATA / Date 01/07/08

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

ORDINE 221
Purchase order
Commande

COMMESSA 84506
Job N.
Confirmation de commande

PROVA Test Epreuve	MATERIALE Steel quality / Matière	COLATA Heat / Coulée	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
RLRN	ASTM A105/05	0730977/07	0.190 --->	0.245 Nb%=0.0023	1.060	0.005	0.012	00.12	00.02	0.021	0.000	0.045	0.003	0.030	0.399 CEs= 0.366
RATF	ASTM A105-05	1T-26847	0.200 --->	0.240 N %= 0.000	0.910	0.010	0.009	00.09	00.09	0.030	0.002	0.130	0.001	0.028	0.390 CEs= 0.351
RUBR	ASTM A105/05	0730977/07	0.190 --->	0.245 Nb%=0.0023	1.060	0.005	0.012	00.12	00.02	0.021	0.000	0.045	0.003	0.030	0.399 CEs= 0.366
RWNA	ASTM A105/05	07/79692	0.185 --->	0.210 Nb%= 0.000	0.890	0.010	0.011	00.10	00.05	0.010	0.000	0.180	0.016	0.022	0.373 CEs= 0.333
RXTC	ASTM A105/05	07-79693	0.185 --->	0.200 Nb%= 0.000	0.860	0.006	0.012	00.15	00.05	0.010	0.000	0.170	0.016	0.020	0.378 CEs= 0.328
FCXR	ASTM A105/02	29387	0.190 --->	0.280 Nb%= 0.001	0.760	0.004	0.007	00.07	00.03	0.005	0.000	0.050	0.001	0.032	0.337 CEs=0.3167

PROVA Test Epreuve	PROVETTA Test specimen / Epreouvette		SNERVAMENTO N/mm ² Yield point Limite d'élasticité	ROTTURA N/mm ² Tensile strength Rupture	ALLUNGAMENTO % Elongation Allongement	CONTRAZIONE % Reduction of area Striction	DUREZZA HB Hardness Dureté	PIEGA Bend test Pliage	SCHIACC. Flatt. test Aplattiss.	RESILLENZA Impact test / Résilience			
	SEZIONE Section / Sect.	LUNGHEZZA Length / Longueur								UNITÀ MIS. Unit system	TIPO Type	T. °C Test tmp	VALORE / Value / Dgnées
RLRN	30.6	25.0	320.0	533.0	29.0	67.0	151-156		J	KV	0	48-50-56	
RATF	122.7	50.0	320.8	523.6	28.6	57.2	156-159		J	KV	0	50-54-74	
RUBR	60.1	35.0	302.0	518.0	31.7	68.3	143-149		J	KV	0	48-50-56	
RWNA	122.6	50.0	301.0	521.0	31.4	68.1	143-150		J	KV	0	52-50-56	
RXTC	122.7	50.0	341.9	501.7	28.0	59.0	140-145		J	KV	0	110-98-106	
FCXR	30.6	25.0	294.0	502.0	34.3	71.5	140-143		J	KV	0	56-46-42	

PROVA Test Epreuve	NOTE / Remarks / Notes	EN10204/3.1	FORMA Shape / Forme : 1 = Ø 2 = □
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RLRN	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.9715.MEGA/I*547160MEGA*
RATF	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.9188.MEGA/I*539529.MEGA*
RUBR	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.9545.MEGA/I*544876MEGA*
RWNA	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.1956.CARLOTTO*545573MEGA*
RXTC	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.1938.CARLOTTO*546064MEGA*
FCXR	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.10262.04.MET.LOMB.*247523.MEGA*

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
RLRN	019	985		TEE S. 3000 NPT A/SA105N 3/4	OK
RATF	020	10		TEE S. 3000 NPT A/SA105N 1	OK
RUBR	020	1490		TEE S. 3000 NPT A/SA105N 1	OK
RWNA	022	724		TEE S. 3000 NPT A/SA105N 2	OK
RXTC	022	276		TEE S. 3000 NPT A/SA105N 2	OK
FCXR	025	3000		UNION S. 3000 NPT A/SA105N 1/2	male+female OK

NOTE / Remarks / Notes	ENTE UFFICIALE DI COLLAUDO Inspection Authority Service Inspection Official	CAPO COLLAUDO Chief Inspection DPT Responsible assurance qualité
MATERIAL ACCORDING TO NACE MR0175/ 2003.		DOC. CERT. M.E.G.A. CENTEMERI EMMANUEL