

# MEGA

CLIENTE  
Customer  
Client

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

CERTIFICATO N. 549086 F081011  
Certificate N. Sheet  
Certificat N. Feuille

DATA / Date 14/04/08

CERTIFICATO DI COLLAUDO  
TEST CERTIFICATE  
CERTIFICAT DE CONTROLE

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

ORDINE  
Purchase order  
Commande 210

COMMESSA 82149  
Job N.  
Confirmation de commande

PROVA Test Epreuve	MATERIALE Steel quality / Matière	COLATA Heat / Coudée	C %	SI %	Mn %	S %	P %	Cr %	NI %	Mo %	TI %	Ca %	V %	A1 %	CE %
RCBC	ASTM A105/05	1T-28773	0.200	0.250	0.900	0.009	0.010	00.07	00.09	0.020	0.002	0.250	0.001	0.024	0.390
			--->	Nb % = 0.003		B % = 0.0002		Sn % = 0.010							
NUUs	ASTM A105/05	387364	0.150	0.180	0.930	0.002	0.018	00.11	00.04	0.010	0.000	0.030	0.004	0.000	0.334
			--->												CEs = 0.305
RXTL	ASTM A105/05	37036	0.140	0.240	0.910	0.004	0.008	00.11	00.04	0.010	0.000	0.060	0.003	0.000	0.322
			--->	Nb % = 0.000											CEs = 0.291
NLFF	ASTM A105/05	760253	0.210	0.280	0.950	0.002	0.012	00.08	00.08	0.010	0.000	0.190	0.010	0.000	0.406
			--->	Nb % = 0.000											CEs = 0.368
NLFS	ASTM A105/05	963381	0.200	0.220	0.960	0.004	0.012	00.09	00.09	0.030	0.000	0.150	0.010	0.000	0.402
			--->												
RXTU	ASTM A105/05	48135	0.140	0.210	0.930	0.003	0.010	00.10	00.06	0.010	0.020	0.080	0.003	0.042	0.326
			--->	Nb % = 0.020		B % = 0.0001									CEs = 0.295

PROVA Test Epreuve	PROVETTA Test specimen / Epreuve		SNERVAMENTO N/mm <sup>2</sup> Yield point Limite d'élasticité	ROTTURA N/mm <sup>2</sup> Tensile strength Rupture	ALLUNGAMENTO % Elongation Allongement	CONTRAZIONE % Reduction of area Striction	DUREZZA HB Hardness Dureté	PIEGA Bend test Pliage	SEHIACC. Flat test Aplatis.	RESILIENZA Impact test / Résilience				
	SEZIONE Section / Sect.	LUNGHEZZA Length / Longueur								UNITA' MIS. Unit system	TIPO Type	T. °C Test temp.	VALORE / Value / Données	
RCBC	1	122.6	50.0	336.4	522.1	31.4	52.9	156-162		J	KV	0	48-50-52	
NUUs	1	30.3	25.0	304.4	486.6	37.6	72.6	149-152	OK	J	KV	0	256-266-278	
RXTL	1	29.5	25.0	300.4	487.0	33.2	74.7	156-159		OK	J	KV	0	228-234-248
NLFF	1	29.1	25.0	351.2	539.3	31.8	65.5	150-170		J	KV	-50	30-34-36	
NLFS	2	282.0	50.0	286.0	509.0	40.0	55.8	150-160		OK	J	KV	0	232-233-230
RXTU	1	58.0	35.0	322.4	487.0	30.1	70.1	156-159		J	KV	0	252-260-278	

PROVA Test Epreuve NOTE / Remarks / Notes EN10204/3.1

FORMA Shape / Forme : 1 = Ø 2 = □

RCBC ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT. AS00933.LEALI\*538280 MEGA\*

NUUs ELECT. FURNACE-NORMALIZED AT 850 C COOLED IN STILL AIR. /CERT. 23362/1-4.MANNESMAN\*544697MEGA\*NDE:OK\*

RXTL ELECT. FURNACE-NORMALIZED AT 850 C COOLED IN STILL AIR. /CERT. 23363/1-4.MANNESMAN\*544697MEGA\*NDE:OK\*

NLFF ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT. 08579.06 TENARIS\*536474 MEGA\*

NLFS ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT. 11714.06 DALMINE

RXTU ELECT. FURNACE-NORMALIZED AT 850 C COOLED IN STILL AIR. /CERT. 24009/1-5.MANNESMAN\*544873MEGA\*NDE:OK\*

PROVA Test Epreuve	POS. Item Pos.	QUANTITA' Quantity	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
RCBC	118	1000		COUPLING S. 3000 SW A/SA105N 1	OK
NUUs	119	500		COUPLING S. 3000 SW A/SA105N 1.1/4	OK
RXTL	120	300		COUPLING S. 3000 SW A/SA105N 1.1/2	OK
NLFF	121	300		COUPLING S. 3000 SW A/SA105N 2	OK
NLFS	122	30		COUPLING S. 3000 SW A/SA105N 2.1/2	OK
RXTU	123	100		COUPLING S. 3000 SW A/SA105N 3	OK

NOTE / Remarks / Notes

MATERIAL ACCORDING TO NACE MR0175/ 2003.

ENTE UFFICIALE DI COLLAUDO  
Inspection Authority  
Service Inspection Office

CAPO COLLAUDO  
Chief Inspector DPT  
Responsable assurance qualité

DOC. CERT. M.E.G.A.  
14/04/08