

# M.E.G.A.

CLIENTE  
Customer  
Client

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

CERTIFICATO N. 549297  
Certificata N.  
Certificat N.

FOGLIO 2  
Sheet  
Feuille

DATA / Date 22/04/08

CERTIFICATO DI COLLAUDO  
TEST CERTIFICATE  
CERTIFICAT DE CONTROLE

COMPANY  
WITH QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

ORDINE  
Purchase order  
Commande

221

COMMESSA  
Job N.  
Confirmation de commande

84506

PROVA Test Epreuve	MATERIALE Steel quality / Matière	COLATA Heat / Coulée	C %	Si %	Mn %	S %	P %	Cr %	Ni %	Mo %	Ti %	Cu %	V %	Al %	CE %
RRLT	ASTM A105/05	7441/07 FC-AV	0.190 --->	0.180 Nb% = 0.000	0.960	0.006	0.008	00.06	00.04	0.010	0.000	0.120	0.016	0.022	0.377 CEs = 0.350
RRLX	ASTM A105/05	077/6866	0.200 --->	0.210 Nb% = 0.000	0.900	0.009	0.009	00.05	00.04	0.010	0.000	0.100	0.019	0.025	0.375 CEs = 0.350
RWSR	ASTM A105/05	077/8827	0.190	0.190	0.910	0.009	0.015	00.09	00.05	0.010	0.000	0.180	0.020	0.027	0.380
RNAD	ASTM A105/05	06/37120 FC-DT	0.185 --->	0.210 Nb% = 0.000	0.950	0.010	0.010	00.06	00.04	0.010	0.000	0.090	0.011	0.024	0.368 CEs = 0.343
RNAA	ASTM A105/05	7442-07	0.190 --->	0.180 Nb% = 0.000	0.890	0.010	0.010	00.09 Sn% = 0.010	00.16	0.050	0.000	0.210	0.000	0.020	0.390
FCXA	ASTM A105/01	36825	0.190 --->	0.240 Nb% = 0.000	0.800	0.011	0.017	00.18	00.17	0.020	0.008	0.200	0.010	0.010	0.389 CEs = 0.3233

PROVA Test Epreuve	PROVETTA Test specimen / Epreuvette		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	SCHIACC. Flatt. test Aplattiss.	RESILIENZA Impact test / Resilience			
	SEZIONE Section / Sect.	LUNGHEZZA Length / Longueur								UNITÀ MIS. Unit system	TIPO Type	T. °C Test temp	VALORE / Value / Données
RRLT	122.6	50.0	304.0	526.0	32.1	68.4	146-150			J	KV	0	48-50-56
RRLX	122.1	50.0	316.2	496.4	26.8	61.0	143-148			J	KV	0	120-120-128
RWSR	122.6	50.0	298.0	510.8	31.2	68.8	143-149			J	KV	0	48-50-54
RNAD	122.6	50.0	292.0	503.0	33.6	71.5	138-143			J	KV	0	52-54-50
RNAA	122.6	50.0	302.0	511.0	31.4	68.3	140-146			J	KV	0	50-56-54
FCXA	122.6	50.0	362.0	544.0	30.1	51.3	161-170			J	KV	-5	42-42-38

PROVA Test Epreuve

NOTE / Remarks / Notes

EN10204/3.1

FORMA Shape / Forme : 1 =  2 =

RRLT	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.1267.CARLOTTO*542724MEGA*
RRLX	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.1325.CARLOTTO*542825MEGA*
RWSR	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.39.CARLOTTO*546903MEGA*
RNAD	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/CERT.896.CARLOTTO*541247MEGA*
RNAA	ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR.	/CERT.58.CARLOTTO*543953MEGA*
FCXA	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR.	/10043+10044.04 MET.LOMB.*241985 MEGA

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
RRLT	006	1		90 DEG. ELBOW S. 3000 NPT A/SA105N 2	OK
	006	8		90 DEG. ELBOW S. 3000 NPT A/SA105N 2	OK
	006	408		90 DEG. ELBOW S. 3000 NPT A/SA105N 2	OK
RNAD	008	30		90 DEG. ELBOW S. 3000 NPT A/SA105N 4	OK
RNAA	016	30		45 DEG. ELBOW S. 3000 NPT A/SA105N 2.1/2	OK
FCXA	023	500		UNION S. 3000 NPT A/SA105N 1/8	male OK

NOTE / Remarks / Notes

MATERIAL ACCORDING TO NACE MR0175/ 2003.

ENTE UFFICIALE DI COLLAUDO  
Inspection Authority  
Service Inspection Official

CAPO COLLAUDO  
Chief Inspection NPT  
Responsable assurance qualité

DOC. CERT. M.E.G.A.  
LUCA M. P. 081