

544932-3

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. 544932 FOLGIO 3
Certificate N. Sheet
Certificat N. Feuille
DATA / Date 29/10/07

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

ORDINE 217
Purchase order
Commande

COMMESSA 83530
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 %
RCUF	ASTM A105/05	0744078/07	0.160 --->	0.205 Nb% = 0.0025	1.050	0.005	0.013	0.130	0.020	0.019	0.000	0.029	0.003	0.022 CEs% = 0.335	0.368
RDRA	ASTM A105/05	074539207	0.185 --->	0.230 Nb% = 0.0027	1.100	0.003	0.010	0.100	0.070	0.014	0.000	0.030	0.002	0.025 CEs% = 30.600	0.398
RFUB	ASTM A105/05	0776868	0.190 --->	0.180 Nb% = 0.000	0.920	0.009	0.008	0.070	0.040	0.010	0.000	0.110	0.019	0.022	0.373
RFUD	ASTM A105/05	AB0891	0.185 --->	0.210 Nb% = 0.001	0.960	0.005	0.006	0.120	0.100	0.040	0.000	0.120	0.002	0.027 CEs% = 0.345	0.392
RRLR	ASTM A105/05	07730346	0.190 --->	0.230 Nb% = 0.001	0.980	0.010	0.009	0.090	0.040	0.010	0.000	0.130	0.012	0.026 CEs% = 0.353	0.387
RRLX	ASTM A105/05	0776866	0.200 --->	0.210 Nb% = 0.000	0.900	0.009	0.009	0.050	0.040	0.010	0.000	0.100	0.019	0.025 CEs% = 0.350	0.375

PROVA Test Epreuve	PROVETTA Test specimen / Epreuve		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.	RESILIENZA Impact test / Résilience			
	SEZIONE Section / Sect.	LUNGHEZZA Length / Longueur								UNITÀ MIS. Unit system	TIPO Type	T. °C Test tmp	VALORE / Value / Données
RCUF	1	30.6	25.0	315.0	533.0	29.1	66.4	143-156		J	KV	0	54-58-52
RDRA	1	30.6	40.0	316.0	538.0	28.8	67.1	153-156		J	KV	0	48-50-56
RFUB	1	60.1	35.0	290.0	498.0	33.3	71.1	138-143		J	KV	0	48-52-50
RFUD	1	122.6	50.0	315.0	533.0	28.7	67.1	149-156		J	KV	0	54-52-50
RRLR	1	60.1	35.0	325.0	540.0	29.1	66.4	150-156		J	KV	0	48-50-52
RRLX	1	122.1	50.0	316.2	496.4	26.8	61.0	143-148		J	KV	0	120-120-128

NOTE / Remarks / Notes EN10204/3.1

FORMA Shape / Forme : 1 = ∅ 2 = □

RCUF	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9334.MEGA/I*541287MEGA*	
RDRA	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9484.MEGA/I*543781MEGA*	
RFUB	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.891.CARLOTTO*541247MEGA*	
RFUD	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.761.CARLOTTO*540462 MEGA*	
RRLR	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.1381.CARLOTTO*542825MEGA*	
RRLX	ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.1325.CARLOTTO*542825MEGA*	

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
RCUF	004	3076		90 DEG. ELBOW S. 3000 NPT A/SA105N 3/4	OK
RDRA	004	172		90 DEG. ELBOW S. 3000 NPT A/SA105N 3/4	OK
RFUB	022	89		TEE S. 3000 NPT A/SA105N 1.1/2	OK
RFUD	007	490		90 DEG. ELBOW S. 3000 NPT A/SA105N 2	OK
RRLR	022	324		TEE S. 3000 NPT A/SA105N 1.1/2	OK
RRLX	007	10		90 DEG. ELBOW S. 3000 NPT A/SA105N 2	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.

DIP. CERT. M.E.G.A.
Barla Pierantonio