

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. 548179 FOLGIO 1
Certificate N. Sheet
Certificat N. Feuille

DATA / Date 07/03/08

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

ORDINE 210
Purchase order
Commande

COMMESSA 82149
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 %
RXBD	ASTM A105/05	0743768/07	0.185	0.240	1.070	0.003	0.009	00.12	00.02	0.009	0.000	0.038	0.003	0.033	0.393
			--->	Nb% = 0.0018	N % = 0.000									CEs = 0.363	
RAUD	ASTM A105/05	5592-07	0.201	0.229	1.020	0.009	0.008	00.07	00.15	0.040	0.000	0.180	0.001	0.024	0.415
			--->	Nb% = 0.001	N % = 0.010			Sn% = 0.004						CEs = 0.371	
FFNL	ASTM A105/02	AR0003	0.200	0.250	0.960	0.008	0.008	00.06	00.08	0.020	0.003	0.180	0.000	0.024	0.393
			--->	Nb% = 0.000										CEs = 0.360	
RFLT	ASTM A105/05	170595	0.172	0.229	1.012	0.002	0.010	00.12	00.15	0.024	0.000	0.257	0.000	0.000	0.397
			--->	Nb% = 0.000										CEs = 0.340	
RFND	ASTM A105/05	0776672	0.190	0.210	0.880	0.010	0.015	00.12	00.06	0.010	0.000	0.170	0.000	0.026	0.377
			--->	Nb% = 0.000	N % = 0.000									CEs = 0.336	
RFNC	ASTM A105/05	0674168	0.200	0.170	0.900	0.009	0.010	00.07	00.05	0.010	0.000	0.140	0.000	0.000	0.378
			--->	Nb% = 0.000	N % = 0.000									CEs = 0.350	

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	
RXBD	1	30.6	25.0	300.0	518.0	31.0	69.0	143-149			J	KV	0	50-58-54
RAUD	1	121.7	50.0	267.9	499.8	24.8	44.2	164-167			J	KV	0	82-90-102
FFNL	1	30.6	25.0	302.0	509.0	31.2	68.3	145-150			J	KV	0	48-38-40
RFLT	1	30.6	25.0	300.0	525.0	32.1	68.4	143-149			J	KV	0	54-52-50
RFND	1	30.6	25.0	323.0	540.0	28.8	66.4	149-156			J	KV	0	48-52-50
RFNC	1	60.1	35.0	291.0	500.0	33.1	71.2	138-143			J	KV	0	48-52-50

PROVA Test Epreuve NOTE / Remarks / Notes EN10204/3.1

FORMA Shape / Forme : 1 = Ø 2 = □

RXBD	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9647.MEGA/I*546340MEGA*	
RAUD	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.9187.07 MEGA/ISMA*539422 MEGA*	
FFNL	ELECT. FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.73.04 EVASI*247474 MEGA	
RFLT	ELECT. FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT.70.EVASI*540541 MEGA*	
RFND	ELECT. FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT.69.EVASI*540541 MEGA*	
RFNC	ELECT. FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT.71.EVASI*540757 MEGA*	

PROVA Test Epreuve	POS. Item Pos.	QUANTITÀ Quantity Quantité	CODICE CLIENTE Customer code Code client	DESCRIZIONE / Description / Description	VISUAL AND DIMENSIONAL
RXBD	002	1000		90 DEG. ELBOW S. 3000 NPT A/SA105N 1/2	OK
RAUD	007	100		90 DEG. ELBOW S. 3000 NPT A/SA105N 2.1/2	OK
FFNL	010	300		45 DEG. ELBOW S. 3000 NPT A/SA105N 1/8	OK
RFLT	011	300		45 DEG. ELBOW S. 3000 NPT A/SA105N 1/2	OK
RFND	012	800		45 DEG. ELBOW S. 3000 NPT A/SA105N 3/4	OK
RFNC	013	400		45 DEG. ELBOW S. 3000 NPT A/SA105N 1	OK

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