

M.E.G.A.

CLIENTE Customer Client
 PROVIDEDORA DE MATERIALES ANGER
 SA DE CV
 ALFONSO REYES 4030 NTE.
 COL. DEL NTE. MONTERREY, N.L.

CERTIFICATO N. 551186 FOLIO 1
 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 Purchase order
 221
 Commande

COMMESSA Job N. 84506
 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 %
CFAN	ASTM A105/01	125869	0.173 --->	0.282	1.120	0.001 Nb% = 0.003	0.008	00.12	00.16	0.035	0.000	0.230	0.001	0.043	0.417 CEs = 0.3597
RFLT	ASTM A105/05	170595	0.172 --->	0.229	1.012	0.002 Nb% = 0.000	0.010	00.12	00.15	0.024	0.000	0.257	0.000	0.000	0.397 CEs = 0.340
RFND	ASTM A105/05	07/76672	0.190 --->	0.210	0.880	0.010 Nb% = 0.000	0.015	00.12	00.06	0.010	0.000	0.170	0.000	0.026	0.377 CEs = 0.336
RUCU	ASTM A105/05	07/78382	0.180 --->	0.200	0.910	0.009 N % = 0.000	0.012	00.08	00.05	0.010	0.000	0.180	0.000	0.025	0.364 CEs = 0.331
NFNL	ASTM A105/05	06/71061	0.185 --->	0.190	0.890	0.009 Nb% = 0.000	0.015	00.00	00.00	0.010	0.000	0.140	0.000	0.021	0.346 CEs = 0.333
RFNC	ASTM A105/05	06/74168	0.200 --->	0.170	0.900	0.009 Nb% = 0.000	0.010	00.07	00.05	0.010	0.000	0.140	0.000	0.000	0.378 CEs = 0.350

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	T. °C Test temp	VALORE / Value / Données
CFAN	1	12.4 20.0	336.0	528.0	31.0	65.4	143-149					
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
RUCU	1	30.6 25.0	325.0	538.0	28.7	66.5	149-156		J	KV	0	54-60-48
NFNL	1	30.6 25.0	289.0	500.0	33.3	71.2	138-143		J	KV	0	48-54-58
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 = □

CFAN ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. /CERT.62.02 EVASI*209742 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*
 RUCU ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT.126.EVASI*544392MEGA*
 NFNL ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. /CERT.78.06 EVASI*533910 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
CFAN	009	500		45 DEG. ELBOW S. 3000 NPT A/SA105N 1/4	OK
RFLT	010	1000		45 DEG. ELBOW S. 3000 NPT A/SA105N 1/2	OK
RFND	011	45		45 DEG. ELBOW S. 3000 NPT A/SA105N 3/4	OK
RUCU	011	455		45 DEG. ELBOW S. 3000 NPT A/SA105N 3/4	OK
NFNL	012	992		45 DEG. ELBOW S. 3000 NPT A/SA105N 1	OK
RFNC	012	508		45 DEG. ELBOW S. 3000 NPT A/SA105N 1	OK

NOTE / Remarks / Notes
 MATERIAL ACCORDING TO NACE MR0175/ 2003.

ENTE UFFICIALE DI COLLAUDO Inspection Authority Service Inspection Official
 CAPO COLLAUDO Chief Inspection DPT Responsible assurance qualité

DOC. CERT. M.E.G.A.
 CENTEMERI EMMANUEL