

# M.E.G.A.

CLIENTE  
Customer  
Client

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

CERTIFICATO N. 551186 F0GLIO 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  
Commande 221

COMMESSA 84506  
Job N.  
Confirmation de commande

| PROVA<br>Test<br>Epreuve | MATERIALE<br>Steel quality / Matière | COLATA<br>Heat / Coulée | C %           | Si %  | Mn %  | S %                 | P %   | Cr %  | Ni %  | Mo %  | Ti %  | Cu %  | V %   | Al %  | CE %                |
|--------------------------|--------------------------------------|-------------------------|---------------|-------|-------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|
| CFAN                     | ASTM A105/01                         | 125869                  | 0.173<br>---> | 0.282 | 1.120 | 0.001<br>Nb%= 0.003 | 0.008 | 00.12 | 00.16 | 0.035 | 0.000 | 0.230 | 0.001 | 0.043 | 0.417<br>CES=0.3597 |
| RFLT                     | ASTM A105/05                         | 170595                  | 0.172<br>---> | 0.229 | 1.012 | 0.002<br>Nb%= 0.000 | 0.010 | 00.12 | 00.15 | 0.024 | 0.000 | 0.257 | 0.000 | 0.000 | 0.397<br>CES= 0.340 |
| RFND                     | ASTM A105/05                         | 07/76672                | 0.190<br>---> | 0.210 | 0.880 | 0.010<br>N %= 0.000 | 0.015 | 00.12 | 00.06 | 0.010 | 0.000 | 0.170 | 0.000 | 0.026 | 0.377<br>CES= 0.336 |
| RUCU                     | ASTM A105/05                         | 07/78382                | 0.180<br>---> | 0.200 | 0.910 | 0.009<br>N %= 0.000 | 0.012 | 00.08 | 00.05 | 0.010 | 0.000 | 0.180 | 0.000 | 0.025 | 0.364<br>CES= 0.331 |
| NFNL                     | ASTM A105/05                         | 06/71061                | 0.185<br>---> | 0.190 | 0.890 | 0.009<br>Nb%= 0.000 | 0.015 | 00.00 | 00.00 | 0.010 | 0.000 | 0.140 | 0.000 | 0.021 | 0.346<br>CES= 0.333 |
| RFNC                     | ASTM A105/05                         | 06/74168                | 0.200<br>---> | 0.170 | 0.900 | 0.009<br>Nb%= 0.000 | 0.010 | 00.07 | 00.05 | 0.010 | 0.000 | 0.140 | 0.000 | 0.000 | 0.378<br>CES= 0.350 |

| PROVA<br>Test<br>Epreuve | PROVETTA<br>Test specimen / Epreuve |                                | SNERVAMENTO<br>N/mm <sup>2</sup><br>Yield point<br>Limite d'élasticité | ROTTURA<br>N/mm <sup>2</sup><br>Tensile strength<br>Rupture | ALLUNGAMENTO<br>%<br>Elongation<br>Allongement | CONTRAZIONE<br>%<br>Reduction of area<br>Striction | DUREZZA<br>HB<br>Hardness<br>Dureté | PIEGA<br>Bend test<br>Pilage | SCHIACC.<br>Flatt. test<br>Aplattiss. | RESILIENZA<br>Impact test / Résilience |              |                   |                          |  |  |
|--------------------------|-------------------------------------|--------------------------------|--|---|--|--|-------------------------------------|------------------------------|---------------------------------------|--|--------------|-------------------|--------------------------|--|--|
|                          | SEZIONE<br>Section / Sect.          | LUNGHEZZA<br>Length / Longueur |  |   |  |  |                                     |                              |                                       | UNITÀ MIS.<br>Unit system              | TIPO<br>Type | T. °C<br>Test tmp | 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<br>Test<br>Epreuve | POS.<br>Item<br>Pos. | QUANTITÀ<br>Quantity<br>Quantité | CODICE CLIENTE<br>Customer code<br>Code client | DESCRIZIONE / Description / Description | VISUAL AND<br>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

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.  
CENTEMERI EMMANUEL