

M.E.G.A.

CLIENTE
Customer
Client

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

CERTIFICATO N. 553287 FOGLIO 2
Certificata N. Sheet
Certificat N. Feuille

DATA / Date 01/10/08

CERTIFICATO DI COLLAUDO
TEST CERTIFICATE
CERTIFICAT DE CONTROLE

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

ORDINE 223
Purchase order
Commande

COMMESSA 85402
Job N.
Confirmation de commande

| PROVA Test Epreuve | MATERIALE Steel quality / Matière | COLATA Heat / Coulee | C % | Si % | Mn % | S % | P % | Cr % | Ni % | Mo % | Ti % | Cu % | V % | Al % | CE % |
|--------------------------|--------------------------------------|-------------------------|-------|-------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|-------|
| RFND | ASTM A105/05 | 07776672 | 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 | |
| RUCU | ASTM A105/05 | 07778382 | 0.180 | 0.200 | 0.910 | 0.009 | 0.012 | 00.08 | 00.05 | 0.010 | 0.000 | 0.180 | 0.000 | 0.025 | 0.364 |
| | | | ---> | | | | | | | | | | | CEs = 0.331 | |
| NWNA | ASTM A105/05 | 24337 | 0.180 | 0.250 | 0.920 | 0.010 | 0.015 | 00.14 | 00.09 | 0.020 | 0.000 | 0.240 | 0.000 | 0.026 | 0.387 |
| | | | ---> | | | | | | | | | | | CEs = 0.333 | |
| RLTA | ASTM A105/05 | 07776867 | 0.190 | 0.180 | 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 | |
| FDUR | ASTM A105/02 | 4497/04.3 | 0.170 | 0.190 | 0.980 | 0.010 | 0.009 | 00.07 | 00.10 | 0.018 | 0.000 | 0.180 | 0.001 | 0.023 | 0.369 |
| | | | ---> | Nb% = 0.001 | | | | | | | | | | CEs = 0.3333 | |
| LCAS | ASTM A105/05 | 0578224 | 0.190 | 0.230 | 0.920 | 0.007 | 0.013 | 00.09 | 00.05 | 0.010 | 0.022 | 0.170 | 0.020 | 0.022 | 0.381 |
| | | | ---> | Nb% = 0.001 | | | | | | | | | | | |

| PROVA Test Epreuve | PROVETTA Test specimen / Epreuvette | | 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. Flat. test Aplattiss. | RESILIENZA Impact test / Resilience | | | |
|--------------------------|--|--------------------------------|--|---|--|--|-------------------------------------|------------------------------|--------------------------------------|--|-------------------|--------------------------|------------|
| | SEZIONE Section / Sect. | LUNGHEZZA Length / Longueur | | | | | | | | UNITÀ MIS. Unit system | T. °C Test tmp | VALORE / Value / Données | |
| 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 |
| NWNA | 1 | 30.8 | 25.0 | 369.0 | 512.6 | 31.7 | 64.6 | 152-156 | | J | KV | 0 | 84-106-108 |
| RLTA | 1 | 122.6 | 50.0 | 321.0 | 533.0 | 28.6 | 67.1 | 149-159 | | J | KV | 0 | 54-52-48 |
| FDUR | 1 | 30.6 | 25.0 | 312.0 | 531.0 | 28.2 | 67.2 | 149-152 | | J | KV | 0 | 46-46-44 |
| LCAS | 1 | 30.6 | 25.0 | 312.0 | 530.0 | 30.2 | 66.0 | 143-149 | | J | KV | 0 | 56-58-48 |

| | | | |
|--------------------------|------------------------|-------------|---|
| PROVA Test Epreuve | NOTE / Remarks / Notes | EN10204/3.1 | FORMA Shape / Forme : 1 = <input checked="" type="checkbox"/> 2 = <input type="checkbox"/> |
|--------------------------|------------------------|-------------|---|

| | | |
|------|--|-------------------------------------|
| 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* |
| NWNA | ELECT.FURNACE-NORMALIZED AT 920 C COOLED IN STILL AIR. | /CERT.124.06 LEALI*536465MEGA* |
| RLTA | ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. | /CERT.1084.CARLOTTO*541882MEGA* |
| FDUR | ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. | /CERT.46.04 EVASI*242001 MEGA |
| LCAS | ELECT.FURNACE-NORMALIZED AT 900 C COOLED IN STILL AIR. | /CERT.8575.06 MEGA/ISMA*530821MEGA* |

| PROVA Test Epreuve | POS. Item Pos. | QUANTITÀ Quantity Quantité | CODICE CLIENTE Customer code Code client | DESCRIZIONE / Description / Description | VISUAL AND DIMENSIONAL |
|--------------------------|----------------------|----------------------------------|--|--|---------------------------|
| RFND | 010 | 75 | 51007 | 45 DEG. ELBOW S. 3000 NPT A/SA105N 3/4 | OK |
| RUCU | 010 | 20 | 51007 | 45 DEG. ELBOW S. 3000 NPT A/SA105N 3/4 | OK |
| NWNA | 012 | 200 | 51012 | 45 DEG. ELBOW S. 3000 NPT A/SA105N 1.1/4 | OK |
| RLTA | 014 | 400 | 51020 | 45 DEG. ELBOW S. 3000 NPT A/SA105N 2 | OK |
| FDUR | 015 | 500 | 52002 | TEE S. 3000 NPT A/SA105N 1/4 | OK |
| LCAS | 016 | 150 | 52003 | TEE S. 3000 NPT A/SA105N 3/8 | OK |

| | | |
|--|---|---|
| NOTE / Remarks / Notes | ENTE UFFICIALE DI COLLAUDO Inspection Authority Service Inspection Officiel | CAPO COLLAUDO Chief Inspector / CPT Responsable assurance qualité |
| MATERIAL ACCORDING TO NACE MR0175/ 2003. | | DOC. CERT. M.E.G.A. Luigi Marretti |