



ALTA HORNOS DE MEXICO

CERTIFICADO DE CALIDAD

AHMSA: CALIDAD CON VOLUNTAD DE ACERO

B505451

09073

EST 11

CLIENTE

ACEROS TERROZOLIAN, S.A. DE C.V.

DIRECCION

CARRI. MEX-GUERRERO KM 17.5

FECHA EMISION: 01.04.2005
PAGINA: 1
NUESTROS CERTIFICADOS QUE LOS ANALISIS Y/O PRUEBAS ESTAN EN EFECTOS EN LOS RESULTADOS DE LA COMPAÑIA.

ING. EDUARDO VILLANUEVA

GERENTE DE LABORATORIO METALURGICO

PRODUCTO

ALACER

COMPOSICION QUIMICA

| ESPECIFICACION | C | MN | P | S | SI | CU | CR | NI | MO | V | NR/CR |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| COLADA | | | | | | | | | | | |
| ASTM A-36/A-572-50 | 0.195 | 0.850 | 0.022 | 0.012 | 0.170 | 0.078 | 0.040 | 0.040 | 0.020 | 0.003 | 0.001 |
| ASTM A-36/A-572-50 | 0.196 | 0.880 | 0.015 | 0.007 | 0.180 | 0.030 | 0.030 | 0.030 | 0.006 | 0.003 | 0.001 |
| ASTM A-36/A-572-50 | 0.218 | 0.850 | 0.025 | 0.012 | 0.220 | 0.020 | 0.030 | 0.030 | 0.007 | 0.003 | 0.001 |
| ASTM A-36/A-572-50 | 0.209 | 0.830 | 0.016 | 0.013 | 0.210 | 0.020 | 0.030 | 0.030 | 0.006 | 0.003 | 0.001 |

PROBAS AL PRODUCTO

| NO. PAQUETE | L. ELASTICO | R. TENSION | ELONG. 8" | PARALAX (P)g. | PRIN (P)g. | LARGO (M) | PIE (KG/MTQ) | NORMA | PELIDO | PARTIDA |
|-------------|--------------|--------------|-----------|---------------|------------|-----------|--------------|------------|--------|---------|
| COLADA | | | | | | | | | | |
| 260407767A | 59.062 (KSI) | 78.465 (KSI) | 23 (8) | 7.00 | 11.2 | 57.600 | A-6 | 030084475 | 000054 | 000054 |
| 260807768A | 58.040 (KSI) | 77.558 (KSI) | 23 (8) | 7.00 | 12.2 | 57.600 | A-6 | 0200064475 | 000054 | 000054 |
| 260508467A | 53.017 (KSI) | 76.512 (KSI) | 22 (8) | 7.00 | 12.1 | 57.600 | A-6 | 0000064475 | 000059 | 000059 |
| 260508468A | 53.013 (KSI) | 76.378 (KSI) | 23 (8) | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 | 000054 |
| 260501581A | 70.138 (KSI) | 79.306 (KSI) | 23 (8) | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 | 000054 |
| 260501582A | 68.092 (KSI) | 77.549 (KSI) | 25 (8) | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 | 000054 |
| 260501586A | 70.138 (KSI) | 79.306 (KSI) | 23 (8) | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 | 000054 |
| 260501591A | 68.092 (KSI) | 77.549 (KSI) | 25 (8) | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 | 000054 |

PRODUCTO IMBARCADO

| NO. PAQUETE | NO. PAAS. | PARALAX (P)g. | PRIN (P)g. | LARGO (M) | PIE (KG/MTQ) | NORMA | PELIDO | PARTIDA |
|-------------|-----------|---------------|------------|-----------|--------------|-------|------------|---------|
| 260501585A | 16 | 15 | 7.00 | 11.2 | 57.600 | A-6 | 030084475 | 000054 |
| 260501586A | 16 | 15 | 7.00 | 12.2 | 57.600 | A-6 | 0200064475 | 000054 |
| 260501587A | 16 | 16 | 7.00 | 12.1 | 57.600 | A-6 | 0000064475 | 000059 |
| 260501588A | 16 | 16 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |
| 260501589A | 16 | 15 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |
| 260501590A | 16 | 16 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |
| 260501591A | 16 | 16 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |
| 260501592A | 16 | 16 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |
| 260501593A | 16 | 16 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |
| 260501594A | 16 | 16 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |
| 260501595A | 16 | 16 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |
| 260501596A | 16 | 16 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |
| 260501597A | 16 | 16 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |
| 260501598A | 16 | 16 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |
| 260501599A | 16 | 16 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |
| 260501600A | 16 | 16 | 7.00 | 12.2 | 57.600 | A-6 | 0000064475 | 000054 |

FIN DE DATOS

EL CERTIFICADO DE AHMSA ES SOLO CON EL CLIENTE REGISTRADO EN ESTE CERTIFICADO Y SOLO ACEROS/ALACEROS EL DOCUMENTO ORIGINAL

SCRITTO : 80551889A

04/17/2005