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|------------------|---|---|------------|---------------|---|--|
| CLIENTE | LA FERRE COMERCIALIZADORA, S.A. DE C.V. | FECHA EMISION | 28.04.2011 | PAGINA | 1 | NOSOTROS CERTIFICAMOS QUE LOS ANALISIS Y/O PRUEBAS MOSTRADAS EN ESTE REPORTE SON CORRECTOS Y ESTAN CONTENIDOS EN LOS REGISTROS DE LA COMPAÑIA. |
| DIRECCION | AV. VALLE DE LAS ALAMEDAS No. 66 B . | ING. RAMIRO CIBENOS MENCHACA PRUEBAS MECANICAS Y CERTIFICACION | | | | |
| PRODUCTO | Vigas | | | | | |

| COMPOSICION QUIMICA | | | | | | | | | | | | | | | |
|---------------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| COLADA | ESPECIFICACION | C | MN | P | S | SI | CU | CR | NI | MO | ALT | V | NB/CB | TI | |
| 112973 | ASTIM A-36/A-572-50 | 0.148 | 0.822 | 0.024 | 0.005 | 0.169 | 0.019 | 0.020 | 0.016 | 0.005 | 0.032 | 0.003 | 0.008 | 0.003 | |
| 112981 | ASTIM A-36/A-572-50 | 0.159 | 0.852 | 0.014 | 0.005 | 0.191 | 0.034 | 0.028 | 0.018 | 0.010 | 0.035 | 0.004 | 0.009 | 0.004 | |
| 113232 | ASTIM A-36/A-572-50 | 0.149 | 0.825 | 0.021 | 0.008 | 0.170 | 0.023 | 0.016 | 0.028 | 0.007 | 0.035 | 0.003 | 0.006 | 0.003 | |
| 212947 | ASTIM A-36/A-572-50 | 0.159 | 0.858 | 0.018 | 0.007 | 0.172 | 0.021 | 0.021 | 0.017 | 0.008 | 0.029 | 0.003 | 0.010 | 0.004 | |
| 213224 | ASTIM A-36/A-572-50 | 0.147 | 0.814 | 0.017 | 0.007 | 0.172 | 0.016 | 0.016 | 0.029 | 0.007 | 0.036 | 0.002 | 0.007 | 0.002 | |
| 213248 | ASTIM A-36/A-572-50 | 0.156 | 0.835 | 0.022 | 0.005 | 0.182 | 0.014 | 0.015 | 0.018 | 0.007 | 0.031 | 0.004 | 0.008 | 0.002 | |
| 213250 | ASTIM A-36/A-572-50 | 0.156 | 0.832 | 0.017 | 0.004 | 0.166 | 0.012 | 0.013 | 0.016 | 0.005 | 0.031 | 0.003 | 0.007 | 0.002 | |

| PRUEBAS AL PRODUCTO | | | | |
|---------------------|-------------|--------------|--------------|--------|
| COLADA | NO. PAQUETE | L. ELASTICO | R. TENSION | %ELON. |
| 112973 | 261103925A | 56.386 (KSI) | 75.181 (KSI) | 25 (%) |
| 112973 | 261103926A | 56.075 (KSI) | 75.301 (KSI) | 26 (%) |
| 112973 | 261103958A | 54.830 (KSI) | 73.203 (KSI) | 24 (%) |
| 112981 | 261103934A | 56.223 (KSI) | 76.047 (KSI) | 24 (%) |
| 112981 | 261103935A | 56.448 (KSI) | 75.691 (KSI) | 26 (%) |
| 112981 | 261103995A | 53.622 (KSI) | 70.838 (KSI) | 24 (%) |
| 112981 | 261104105A | 54.888 (KSI) | 72.585 (KSI) | 27 (%) |
| 112981 | 261104106A | 55.324 (KSI) | 73.079 (KSI) | 28 (%) |
| 113232 | 261104451A | 68.527 (KSI) | 79.260 (KSI) | 23 (%) |
| 113232 | 261104452A | 69.376 (KSI) | 79.170 (KSI) | 23 (%) |
| 212947 | 261103947A | 59.516 (KSI) | 73.658 (KSI) | 26 (%) |
| 212947 | 261103948A | 60.116 (KSI) | 74.104 (KSI) | 26 (%) |
| 213224 | 261104459A | 69.702 (KSI) | 79.999 (KSI) | 25 (%) |
| 213224 | 261104460A | 70.489 (KSI) | 79.888 (KSI) | 23 (%) |
| 213248 | 261104467A | 69.752 (KSI) | 79.157 (KSI) | 24 (%) |
| 213248 | 261104468A | 70.356 (KSI) | 79.252 (KSI) | 23 (%) |
| 213250 | 261104481A | 63.285 (KSI) | 75.301 (KSI) | 26 (%) |
| 213250 | 261104483A | 67.031 (KSI) | 77.658 (KSI) | 27 (%) |

| PRODUCTO EMBARCADO | | | | | | | | |
|--------------------|-------------|-----------|----------------|--------------|-----------|--------------|--------------|------------|
| COLADA | NO. PAQUETE | NO. PZAS. | PERALTE (Plg.) | PATIN (Plg.) | LARGO (m) | PESO (Kg/mt) | PED. CLIENTE | PEDIDO |
| 112973 | 261103930B | 4 | 18.0000 | 7.5000 | 12.2000 | 89.280 | CA09-4251 | 0000118761 |
| 112981 | 261104000B | 5 | 18.0000 | 7.5000 | 12.2000 | 96.720 | CA09-4251 | 0000118761 |
| 113232 | 261104452A | 60 | 8.0000 | 4.0000 | 12.2000 | 14.880 | CA09-4376. | 0000119648 |

EL COMPROMISO DE AHMSA ES SOLO CON EL CLIENTE INDICADO EN ESTE CERTIFICADO, Y SOLO ACEPTAMOS EL DOCUMENTO ORIGINAL

EMITIO : S0550133



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|------------------|---|----------------------|------------|---------------|---|---|
| CLIENTE | LA FERRE COMERCIALIZADORA, S.A. DE C.V. | FECHA EMISION | 28.04.2011 | PAGINA | 2 | NOSOTROS CERTIFICAMOS QUE LOS ANALISIS Y/O PRUEBAS MOSTRADAS EN ESTE REPORTE SON CORRECTOS Y ESTAN CONTENIDOS EN LOS REGISTROS DE LA COMPANIA. |
| DIRECCION | AV. VALLE DE LAS ALAMEDAS No. 66 B . | | | | | |
| PRODUCTO | Vigas | | | | | |

ING. RAMIRO CIBNEROS MENCHACA
 PRUEBAS MECANICAS Y CERTIFICACION

| PRODUCTO EMBARCADO | | | | | | | | |
|--------------------|-------------|-----------|----------------|--------------|-----------|---------------|--------------|------------|
| COLADA | NO. PAQUETE | NO. PZAS. | PERALTE (Plg.) | PATIN (Plg.) | LARGO (m) | PESO (Kg/mt.) | PED. CLIENTE | PEDIDO |
| 113232 | 261104515A | 59 | 8.0000 | 4.0000 | 12.2000 | 14.880 | CA09-4376. | 0000119648 |
| 212947 | 261103951A | 10 | 18.0000 | 7.5000 | 12.2000 | 89.280 | CA09-4251 | 0000118761 |
| 213224 | 261104514A | 60 | 8.0000 | 4.0000 | 12.2000 | 14.880 | CA09-4376. | 0000119648 |
| 213224 | 261104515A | 59 | 8.0000 | 4.0000 | 12.2000 | 14.880 | CA09-4376. | 0000119648 |
| 213248 | 261104514A | 60 | 8.0000 | 4.0000 | 12.2000 | 14.880 | CA09-4376. | 0000119648 |
| 213250 | 261104515A | 59 | 8.0000 | 4.0000 | 12.2000 | 14.880 | CA09-4376. | 0000119648 |
| COLADA | NO. PAQUETE | PARTIDA | ENTREGA | | | | | |
| 112973 | 261103930B | 000110 | 1001459809 | | | | | |
| 112981 | 261104000B | 000120 | 1001459809 | | | | | |
| 113232 | 261104452A | 000010 | 1001459809 | | | | | |
| 113232 | 261104515A | 000010 | 1001459809 | | | | | |
| 212947 | 261103951A | 000110 | 1001459809 | | | | | |
| 213224 | 261104514A | 000010 | 1001459809 | | | | | |
| 213224 | 261104515A | 000010 | 1001459809 | | | | | |
| 213248 | 261104514A | 000010 | 1001459809 | | | | | |
| 213250 | 261104515A | 000010 | 1001459809 | | | | | |

FIN DE DATOS

EL COMPROMISO DE AHMSA ES SOLO CON EL CLIENTE INDICADO EN ESTE CERTIFICADO, Y SOLO ACEPTAMOS EL DOCUMENTO ORIGINAL

EMITIO : S0550133