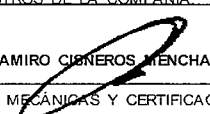




|           |  |               |            |        |   |  |
|-----------|--|---------------|------------|--------|---|--|
| CLIENTE   | ABINSA, S.A DE C.V.                              | FECHA EMISION | 27.10.2012 | PAGINA | 1 | NOSOTROS CERTIFICAMOS QUE LOS ANALISIS Y/O PRUEBAS MOSTRADAS EN ESTE REPORTE SON CORRECTOS Y ESTAN CONTENIDOS EN LOS REGISTROS DE LA COMPANIA<br><br><br>ING. RAMIRO CISNEROS MENCHACA<br>PRUEBAS MECANICAS Y CERTIFICACION |
| DIRECCION | AVE. ADOLFO LOPEZ MATEOS KM. 6.5 VIA A MATAMOROS |               |            |        |   |  |
| PRODUCTO  | Vigas  |               |            |        |   |  |

| COMPOSICION QUIMICA |                    |              |                |              |           |               |              |       |            |       |       |       |       |       |
|---------------------|--------------------|--------------|----------------|--------------|-----------|---------------|--------------|-------|------------|-------|-------|-------|-------|-------|
| COLADA              | ESPECIFICACION     | C            | MN             | P            | S         | SI            | CU           | CR    | NI         | MO    | ALT   | V     | NB/CB | TI    |
| 227851              | ASTM A-36/A-572-50 | 0.158        | 0.846          | 0.011        | 0.004     | 0.167         | 0.018        | 0.014 | 0.013      | 0.009 | 0.041 | 0.003 | 0.009 | 0.002 |
| 424045              | ASTM A-36/A-572-50 | 0.148        | 0.838          | 0.012        | 0.006     | 0.158         | 0.025        | 0.018 | 0.019      | 0.010 | 0.039 | 0.003 | 0.008 | 0.002 |
| PRUEBAS AL PRODUCTO |                    |              |                |              |           |               |              |       |            |       |       |       |       |       |
| COLADA              | NO. PAQUETE        | L. ELASTICO  |                | R. TENSION   |           | %ELON.        |              |       |            |       |       |       |       |       |
| 227851              | 261214688A         | 62.682 (KSI) |                | 76.229 (KSI) |           | 25 (%)        |              |       |            |       |       |       |       |       |
| 227851              | 261214689A         | 61.795 (KSI) |                | 69.219 (KSI) |           | 24 (%)        |              |       |            |       |       |       |       |       |
| 424045              | 261214698A         | 64.403 (KSI) |                | 79.235 (KSI) |           | 24 (%)        |              |       |            |       |       |       |       |       |
| 424045              | 261214699A         | 64.865 (KSI) |                | 79.589 (KSI) |           | 26 (%)        |              |       |            |       |       |       |       |       |
| PRODUCTO EMBARCADO  |                    |              |                |              |           |               |              |       |            |       |       |       |       |       |
| COLADA              | NO. PAQUETE        | NO. PZAS.    | PERALTE (Plg.) | PATIN (Plg.) | LARGO (m) | PESO (Kg/mt.) | PED. CLIENTE |       | PEDIDO     |       |       |       |       |       |
| 227851              | 261214696A         | 12           | 18.0000        | 7.5000       | 12.2000   | 74.400        | 30058-OCT    |       | 0000513114 |       |       |       |       |       |
| 424045              | 261214708A         | 12           | 18.0000        | 7.5000       | 12.2000   | 74.400        | 30058-OCT    |       | 0000513114 |       |       |       |       |       |
| 424045              | 261214709A         | 12           | 18.0000        | 7.5000       | 12.2000   | 74.400        | 30058-OCT    |       | 0000513114 |       |       |       |       |       |
| COLADA              | NO. PAQUETE        | PARTIDA      | ENTREGA        |              |           |               |              |       |            |       |       |       |       |       |
| 227851              | 261214696A         | 000070       | 1001689908     |              |           |               |              |       |            |       |       |       |       |       |
| 424045              | 261214708A         | 000070       | 1001689908     |              |           |               |              |       |            |       |       |       |       |       |
| 424045              | 261214709A         | 000070       | 1001689908     |              |           |               |              |       |            |       |       |       |       |       |
| FIN DE DATOS        |                    |              |                |              |           |               |              |       |            |       |       |       |       |       |

EMITIO : S0550188