



ALTS HORNOS DE MEXICO

CERTIFICADO DE CALIDAD

AHMSA: CALIDAD CON VOLUNTAD DE ACERO

B630836

| CUERTE | | FECHA EMISION | PAGINA |
|-------------------------------------|--|---------------|--------|
| PUEBLA ANAHUAC Y CIAS, S.A. DE C.V. | | 13.06.2006 | 1 |
| DIRECCION | | | |
| AV. VALLE DE LAS ALAMEDAS NO. 66-0 | | | |
| PRODUCTO | | | |
| Vigas | | | |

ING. GUARDO VALLABUENA
GERENTE DE LABORATORIO METALURGICO

NUESTROS CERTIFICADOS QUE LOS ANALISIS Y/O PRUEBAS METALURGICAS EN ESTE REPORTE SON HECHOS POR PERSONAS QUE ESTAN COMPLETANDO EN LOS CENTROS DE LA COMPANIA.

| COMPOSICION QUIMICA | | | | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | C | MN | P | S | SI | CU | CR | NI | MO | V | NB/CB |
| COLADA | | | | | | | | | | | |
| ESPECIFICACION | | | | | | | | | | | |
| ASTM A-36/A-572-50 | 0.196 | 0.850 | 0.017 | 0.009 | 0.240 | 0.030 | 0.020 | 0.020 | 0.006 | 0.002 | 0.001 |
| ASTM A-36/A-572-50 | 0.196 | 0.860 | 0.017 | 0.008 | 0.209 | 0.030 | 0.020 | 0.030 | 0.006 | 0.005 | 0.001 |
| ASTM A-36/A-572-50 | 0.197 | 0.890 | 0.018 | 0.008 | 0.223 | 0.020 | 0.030 | 0.030 | 0.006 | 0.003 | 0.001 |
| ASTM A-36/A-572-50 | 0.195 | 0.820 | 0.013 | 0.012 | 0.213 | 0.030 | 0.020 | 0.030 | 0.005 | 0.002 | 0.001 |
| ASTM A-36/A-572-50 | 0.199 | 0.830 | 0.015 | 0.009 | 0.221 | 0.030 | 0.020 | 0.030 | 0.005 | 0.004 | 0.001 |
| ASTM A-36/A-572-50 | 0.190 | 0.880 | 0.013 | 0.008 | 0.212 | 0.020 | 0.030 | 0.030 | 0.006 | 0.003 | 0.001 |
| ASTM A-36/A-572-50 | 0.194 | 0.860 | 0.016 | 0.015 | 0.203 | 0.020 | 0.030 | 0.030 | 0.005 | 0.003 | 0.001 |

| PRUEBAS AL PRODUCTO | | | |
|---------------------|--------------|----------|--|
| NO. PAQUETE | R. TENSION | VELON 8" | |
| 260604851A | 70.682 (KSI) | 23 (4) | |
| 260604852A | 74.625 (KSI) | 21 (4) | |
| 260605039A | 73.452 (KSI) | 24 (4) | |
| 260605040A | 74.871 (KSI) | 25 (4) | |
| 260605036A | 73.306 (KSI) | 24 (4) | |
| 260605037A | 74.835 (KSI) | 23 (4) | |
| 260605009A | 78.092 (KSI) | 23 (4) | |
| 260605011A | 78.329 (KSI) | 22 (4) | |
| 260605098A | 72.341 (KSI) | 24 (4) | |
| 260605099A | 73.646 (KSI) | 23 (4) | |
| 260604828A | 78.061 (KSI) | 22 (4) | |
| 260604833A | 75.891 (KSI) | 23 (4) | |
| 260605032A | 72.524 (KSI) | 24 (4) | |
| 260605033A | 73.642 (KSI) | 25 (4) | |

| PRODUCTO EMBARCADO | | | |
|--------------------|----------------|--------------|-----------|
| NO. PAQUETE | PERALTE (PIG.) | PATIN (PIG.) | LARGO (m) |
| 260604982A | 12 | 8.00 | 12.2 |
| 260604983A | 12 | 8.00 | 12.2 |
| 260605102A | 12 | 8.00 | 12.2 |
| 260605102A | 12 | 8.00 | 12.2 |
| 260605101A | 8 | 8.00 | 12.2 |
| 260605011A | 8 | 8.00 | 12.2 |
| 260605100A | 12 | 8.00 | 12.2 |
| 260605102A | 12 | 8.00 | 12.2 |
| 260605103A | 12 | 8.00 | 12.2 |

| COLADA | NO. PAQUETE | NO. PZAS. | PERALTE (PIG.) | PATIN (PIG.) | LARGO (m) | PESO (KG/MTO) | NORMA | PEDIDO | PARTIDA |
|--------|-------------|-----------|----------------|--------------|-----------|---------------|-------|------------|---------|
| 163878 | 260604982A | 12 | 12 | 8.00 | 12.2 | 67.000 | A-6 | 0000074060 | 000150 |
| 163878 | 260604983A | 12 | 12 | 8.00 | 12.2 | 67.000 | A-6 | 0000074060 | 000150 |
| 163986 | 260605102A | 12 | 12 | 8.00 | 12.2 | 74.400 | A-6 | 0000074060 | 000160 |
| 163987 | 260605102A | 12 | 12 | 8.00 | 12.2 | 74.400 | A-6 | 0000074060 | 000160 |
| 264001 | 260605101A | 8 | 12 | 8.00 | 12.2 | 74.400 | A-6 | 0000074060 | 000160 |
| 264001 | 260605011A | 8 | 12 | 8.00 | 12.2 | 74.400 | A-6 | 0000074060 | 000160 |
| 264003 | 260605100A | 12 | 12 | 8.00 | 12.2 | 74.400 | A-6 | 0000074060 | 000160 |
| 264003 | 260605102A | 12 | 12 | 8.00 | 12.2 | 74.400 | A-6 | 0000074060 | 000160 |
| 264003 | 260605103A | 12 | 12 | 8.00 | 12.2 | 74.400 | A-6 | 0000074060 | 000160 |

