

CERTIFICADO DE CALIDAD DE PRODUCTO TERMINADO

DATOS GENERALES:

FECHA/HORA: 08/11/12 18:13:44  
 CLIENTE: PLESA ANAHUAC Y CIAS, S.A. DE  
 PEDIDO: 010556 CONTRA 14242 REMISION: 0046750-1  
 PRODUCTO: CANAL 8" (LIV) 11.5LB/FT 203.2GRADO DE ACERO ASTM A36/A36M-94  
 ESPECIFICACION PRODUCTO: ASTM A6/94 EMBARQUE: TRANSPORTES RUIZ  
 PESO TEORICO (KG/MT) :17.113 LONGITUD (Mts) 12.20 TERMINADO:

ANALISIS QUIMICOS:

| COLADA | % P   | % S   | % Sn  | % C   | % Cu  | % Mo  | % Si  | % Ni  | % Cr  | % V   | % Mn  | % Nb  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 398617 | .0130 | .0400 | .0160 | .2400 | .3000 | .0230 | .2600 | .1300 | .1700 | .0030 | .7500 | .0030 |
| 398619 | .0130 | .0390 | .0160 | .2300 | .3400 | .0240 | .2500 | .1400 | .1700 | .0030 | .7000 | .0030 |
| 398707 | .0170 | .0270 | .0150 | .1900 | .2500 | .0330 | .2100 | .1000 | .1500 | .0020 | .6200 | .0010 |

ANALISIS MECANICOS Y FISICOS:

| COLADA | LIMITE ELASTICO (PSI/MPA) | ESFUERZO MAXIMO (PSI/MPA) | ALARGAMIENTO (2") | CHARPY V-NOTCH JOULES | CHARPY V-NOTCH LB-PIE | CHARPY V-NOTCH KG-MT |
|--------|---------------------------|---------------------------|-------------------|-----------------------|-----------------------|----------------------|
| 398617 | 56,750                    | 79,525                    | 26                |                       |                       |                      |
| 398619 | 54,820                    | 77,340                    | 26                |                       |                       |                      |
| 398707 | 50,008                    | 71,750                    | 27                |                       |                       |                      |

ATADOS DE LA COLADA

| COLADA |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|
| 398617 | TMK00120 | TMK00135 | TMK00136 | TMK00137 |          |          |
| 398619 | TMK00129 | TMK00130 | TMK00131 | TMK00132 | TMK00133 | TMK00134 |
| 398707 | TMK00173 | TMK00174 | TMK00175 |          |          |          |

S I M E C A C E R O  
 S. A. D E C. V.  
 DEPTO. DE EMBARQUE  
 ASEGURAMIENTO DE CALIDAD