

CERTIFICADO DE CALIDAD DE PRODUCTO TERMINADO

DATOS GENERALES:

FECHA/HORA: 02/12/12 12:40:31
 CLIENTE: PLESA ANAHUAC Y CIAS, S.A. DE
 PEDIDO: 010928 CONTRA 14485 REMISION: 0047732-1
 PRODUCTO: CANAL 8" (LIV) 11.5LB/FT 203.2GRADO DE ACERO ASTM A36/A36M-94
 ESPECIFICACION PRODUCTO: ASTM A6/94 EMBARQUE: JOSE GUADALUPE ZARAG
 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 |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 398781 | .0160 | .0350 | .0180 | .2000 | .2700 | .0180 | .2100 | .1100 | .1200 | .0030 | .9700 | |
| 398783 | .0160 | .0340 | .0190 | .2000 | .2900 | .0200 | .2500 | .1300 | .2000 | .0020 | 1.0100 | .0020 |
| 398785 | .0160 | .0220 | .0160 | .2100 | .2800 | .0240 | .2400 | .1300 | .2000 | .0020 | .7300 | .0020 |
| 398822 | .0130 | .0280 | .0150 | .1900 | .2800 | .0190 | .2100 | .1100 | .1100 | .0230 | .9700 | |

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 |
|--------|---------------------------|---------------------------|-------------------|-----------------------|-----------------------|----------------------|
| 398781 | 57,245 | 79,569 | 27 | | | |
| 398783 | 57,985 | 79,569 | 28 | | | |
| 398785 | 53,605 | 75,773 | 26 | | | |
| 398822 | 56,448 | 78,750 | 28 | | | |

ATADOS DE LA COLADA

| COLADA | | | | | | | |
|--------|----------|----------|----------|----------|----------|----------|----------|
| 398781 | TMK00618 | TMK00619 | TMK00620 | TMK00621 | TMK00622 | TMK00623 | TMK00625 |
| 398783 | TMK00919 | TMK00920 | | | | | |
| 398785 | TMK00617 | | | | | | |
| 398822 | TMK00665 | TMK00666 | TMK00667 | TMK00668 | TMK00669 | TMK00670 | |

SIMECACERO
S.A. DE C.V.
 DEPTO. DE EMBARQUE
 ASSEGURAMIENTO DE CALIDAD