

## CERTIFICADO DE CALIDAD DE PRODUCTO TERMINADO

## DATOS GENERALES:

FECHA/HORA: 13/01/14 17:07:54

CLIENTE: PLESA ANAHUAC Y CIAS, S.A. DE

PEDIDO: 013927 CONTRA 16953 REMISION: 0061543-1

PRODUCTO: ANGULO 3X3/16" 76.2X4.76MM GRADO DE ACEPO ASTM A36/A36M-08

CANTIDAD EMBARCADA 19.361 TONS

ESPECIFICACION A6/A6M-10 EMBARQUE: AUTOTRANSP. PACHECO

PESO TEORICO PRODUCTO: 5.521 KGS/MT LONGITUD (Mts) 6.10 TERMINADO:

## ANALISIS QUIMICOS:

| COLADA | % P   | % S   | % Sn  | % C   | % Cu  | % Mo  | % Si  | % Ni  | % Cr  | % V   | % Mn  | % Nb  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 304560 | .0180 | .0390 | .0180 | .1700 | .2700 | .0200 | .2300 | .0900 | .1600 | .0030 | .7300 | .0030 |
| 304561 | .0170 | .0210 | .0160 | .1900 | .2600 | .0250 | .2200 | .0800 | .1400 | .0030 | .7700 |       |
| 304814 | .0180 | .0340 | .0180 | .2100 | .1800 | .0440 | .2900 | .0900 | .2100 | .0020 | .7400 | .0020 |
| 304886 | .0160 | .0280 | .0200 | .1800 | .2500 | .0260 | .2200 | .0900 | .1300 | .0020 | .9800 | .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 |
|--------|---------------------------|---------------------------|-------------------|-----------------------|-----------------------|----------------------|
| 304560 | 50,728                    | 72,308                    | 27                |                       |                       |                      |
| 304561 | 52,768                    | 74,750                    | 27                |                       |                       |                      |
| 304814 | 53,790                    | 75,974                    | 26                |                       |                       |                      |
| 304886 | 56,028                    | 78,056                    | 28                |                       |                       |                      |

## ATADOS DE LA COLADA

| COLADA |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|
| 304560 | SOA01383 |          |          |          |          |
| 304561 | SOA00851 |          |          |          |          |
| 304814 | SNL04834 | SNL04836 | SNL04837 | SNL04838 | SNL04839 |
| 304886 | SNL04862 |          |          |          |          |

**SIMEC ACERO**  
**S.A. DE C.V.**  
 ASEGURAMIENTO DE CALIDAD  
 DEPTO. DE EMBARQUE