

CERTIFICADO DE CALIDAD DE PRODUCTO TERMINADO

DATOS GENERALES:

FECHA/HORA: 11/02/13 9:16:47  
 CLIENTE: PLESA ANAHUAC Y CIAS, S.A. DE  
 PEDIDO: 011451 CONTRA 14941 REMISION: 0049640-1  
 PRODUCTO: ANGULO 4X1/4" 101.6X6.35MM GRADO DE ACERO ASTM A36/A36M-94  
 ESPECIFICACION PRODUCTO: ASTM A6/94 EMBARQUE: MICHAELA ARCE CRUZ  
 PESO TEORICO(KG/MT): 9.821 LONGITUD(Mts) 6.10 TERMINADO:

ANALISIS QUIMICOS:

| COLADA | % P   | % S   | % Sn  | % C   | % Cu  | % Mo  | % Si  | % Ni  | % Cr  | % V   | % Mn  | % Nb  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 300259 | .0140 | .0400 | .0170 | .1600 | .2800 | .0160 | .2200 | .1100 | .0400 | .0030 | .6700 | .0020 |
| 399377 | .0150 | .0370 | .0190 | .2000 | .3100 | .0210 | .2300 | .1000 | .1700 | .0030 | .9900 | .0030 |
| 399426 | .0180 | .0420 | .0190 | .1900 | .3200 | .0160 | .2300 | .1100 | .1300 | .0020 | .6900 | .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 |
|--------|---------------------------|---------------------------|-------------------|-----------------------|-----------------------|----------------------|
| 300259 | 49,079                    | 70,465                    | 27                |                       |                       |                      |
| 399377 | 57,615                    | 79,569                    | 27                |                       |                       |                      |
| 399426 | 51,296                    | 73,150                    | 27                |                       |                       |                      |

ATADOS DE LA COLADA

| COLADA |          |          |          |          |          |          |          |          |          |  |  |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|--|
| 300259 | TNA02329 | TNA02330 | TNA02331 | TNA02372 | TNA02479 | TNA02480 | TNA02481 | TNA02482 | TNA02483 |  |  |
| 399377 | TML02436 | TML02437 | TML02438 | TML02445 |          |          |          |          |          |  |  |
| 399426 | TML02359 |          |          |          |          |          |          |          |          |  |  |

**SIMEC ACERO**  
 S.A. DE C.V.  
 ASIGNAMIENTO DE CALIDAD

