

CERTIFICADO DE CALIDAD DE PRODUCTO TERMINADO

DATOS GENERALES:

FECHA/HORA: 24/04/06 12:43  
 CLIENTE: ELESA ANAHUAC Y CIAS, S.A. DE  
 PEDIDO: 145030 CONTRATO: 1152 REMISION: 322266-1  
 PRODUCTO: ANGULO 4"x3/8" 101.6x9.52MM GRADO DE ACERO ASTM A36/A36M-94  
 ESPECIFICACION PRODUCTO: ASTM A6/94 EMBARQUE: PEDRO MENDOZA GUERR.  
 PESO TEORICO(KG/MT): 14.583 LONGITUD(MLS) 12.20 TERMINADO:

ANALISIS QUIMICOS:

| COLADA | % P   | % S   | % Sn  | % C   | % Cu  | % Mo  | % Si  | % Ni  | % Cr  | % V   | % Mn  | % Nb  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 366001 | .0140 | .0300 | .0170 | .2100 | .2900 | .0360 | .2200 | .1900 | .1200 | .0030 | .6500 | .0030 |
| 366609 | .0080 | .0270 | .0120 | .1600 | .3200 | .0290 | .1800 | .1600 | .1100 | .0030 | .6300 | .0020 |

ANALISIS MECANICOS Y FISICOS:

| COLADA | LIMITE ELASTICO (LB/IN2) | ESFUERZO MAXIMO (LB/IN2) | ALARGAMIENTO % |
|--------|--------------------------|--------------------------|----------------|
| 366001 | 52,125                   | 74,165                   | 26             |
| 366609 | 48,331                   | 69,685                   | 27             |

ATADOS DE LA COLADA

| COLADA |          |          |          |          |          |          |          |          |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|
| 366001 | TGD02572 | TGD02573 | TGD02574 | TGD02575 | TGD02576 | TGD02577 | TGD02578 | TGD02579 |
| 366609 | TGD02561 | TGD02562 | TGD02563 | TGD02564 | TGD02565 | TGD02566 | TGD02567 |          |

**CIA. SIDERURGICA DE QUABALAJARA,**  
**S.A. DE C.V.**  
**DEPTO. DE EMBARQUES**  
 ASESURAMIENTO DE CALIDAD