



SIMEC INTERNATIONAL, S.A. DE C.V.
 PRODUCTOS SIDERURGICOS TLAXCALA, SA DE CV



Aseguramiento de la Calidad
 CERTIFICADO DE CALIDAD N°
 CERTIFICATE OF QUALITY N°

ACEROS ESPECIALES

09-0156A

| | | | |
|------------------------------|-----------------------------|-------------------------------|----------------|
| CLIENTE CUSTOMER | PLESA ANAHUAC Y CIAS | GRADO DE ACERO STEEL GRADE | A-36 |
| N° DE COLADA HEAT N° | 01569909 | MEDIDA SECTION SIZE | 1 1/4" |
| IDENTIFICACION COLOR CODE | | PERFIL SHAPE | Redondo |

ANALISIS QUIMICO %
 CHEMICAL ANALYSIS %

| C | Mn | Si | P | S | Cr | Ni | Mo | Al | Cu | Sn | Pb | V | Ti | Nb | B ppm | Ca ppm | O2 | N2 | Di |
|-----|-----|-----|------|------|-----|-----|------|------|-----|------|----|---|----|----|-------|--------|----|----|----|
| .23 | .65 | .19 | .009 | .038 | .13 | .11 | .031 | .003 | .24 | .016 | | | | | | | | | |

METALOGRAFIA
 METALLOGRAPHY

| TAMAÑO DE GRANO GRAIN SIZE | DECARBURIZACION DECARBURIZATION | ESTRUCTURA STRUCTURE | INCLUSIONES NO METALICAS NONMETALLIC-INCLUSIONS | | | | | | | |
|-------------------------------|------------------------------------|-------------------------|--|---|---|---|---|---|---|---|
| | | | A | B | C | D | | | | |
| | | | D | G | D | G | D | G | D | G |

PROPIEDADES MECANICAS
 MECHANICALS PROPERTIES

| RESISTENCIA A LA TENSIÓN TENSILE STRENGTH (PSI) | LIMITE DE CEDENCIA YIELD STRENGTH (PSI) | % REDUCCION DE AREA REDUCTION IN AREA | % ALARGAMIENTO ELONGATION | DUREZA HARDNESS |
|--|--|--|------------------------------|--------------------|
| 72,847 Lbs/Pulg² | 51,139 Lbs/Pulg² | | 27.94% | 79HRB |

PRUEBAS ESPECIALES
 SPECIAL TESTING

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OBSERVACIONES:
 OBSERVATIONS

FECHA 27-Ene-2009 18:04
 DATE

ASEGURAMIENTO DE CALIDAD
 QUALITY ASSURANCE DEPARTMENT