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|--------------------------------------------------------------|-----------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CLIENTE ACEROS BONDISCH, S.A. DE C.V. | FECHA EMISION 05.10.2012 | PAGINA 1 | NOSOTROS CERTIFICAMOS QUE LOS ANALISIS Y/O PRUEBAS MOSTRADAS EN ESTE REPORTE SON CORRECTOS Y ESTAN CONTENIDOS EN LOS REGISTROS DE LA COMPANIA. ING. RAMIRO CIBNEROS MENCHACA PRUEBAS MECANICAS Y CERTIFICACION |
| DIRECCION AVENIDA JOSE LOPEZ PORTILLO NO. 1 COL. LECHERIA | PRODUCTO Lam. rol. frio temp. tenson rollo | | |

| | | COMPOSICION QUIMICA | | | | | | | | | | | | | | |
|--------|----------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--|
| COLADA | ESPECIFICACION | C | Mn | P | S | Si | Cu | Cr | Ni | Mo | V | Nb(Cb) | Ti | Sn | Als | |
| 127205 | SAE J403 1008 | 0.090 | 0.360 | 0.012 | 0.011 | 0.007 | 0.014 | 0.014 | 0.012 | 0.005 | 0.001 | 0.003 | 0.001 | 0.002 | 0.031 | |
| 423700 | SAE J403 1008 | 0.080 | 0.320 | 0.015 | 0.014 | 0.010 | 0.020 | 0.020 | 0.010 | 0.005 | 0.001 | 0.002 | 0.001 | 0.001 | 0.030 | |
| COLADA | N2 | | | | | | | | | | | | | | | |
| 127205 | 0.0055 | | | | | | | | | | | | | | | |
| 423700 | 0.0055 | | | | | | | | | | | | | | | |

| | | PRUEBAS AL PRODUCTO | | | | |
|--------|-----------|---------------------|---------|-------|--|--|
| COLADA | NO. ROLLO | ESPESOR (Plg.) | DUREZA | NORMA | | |
| 127205 | 4380052X | 0.0359 | 60 (RB) | N/A | | |
| 127205 | 4380051X | 0.0359 | 55 (RB) | N/A | | |
| 423700 | 4380009X | 0.0598 | 60 (RB) | N/A | | |

| | | PRODUCTO EMBARCADO | | | | | |
|--------|-----------|--------------------|--------------------------------|------------|---------|------------|----------------|
| COLADA | NO. ROLLO | ESPESOR (Plg.) | ANCHO (Plg.) | PEDIDO | PARTIDA | ENTREGA | PED. CLIENTE |
| 127205 | 4380052X | 0.0359 | 48.0000 | 0000512844 | 000030 | 1001679657 | D23703 # 45020 |
| 127205 | 4380051X | 0.0359 | 48.0000 | 0000512844 | 000030 | 1001679657 | D23703 # 45019 |
| 423700 | 4380009X | 0.0598 | 48.0000 | 0000512844 | 000010 | 1001679657 | D23703 # 45018 |
| COLADA | NO. ROLLO | NORMA | ACABADO | | | | |
| 127205 | 4380052X | AH/5% | C/AC OP30-60 MP 0.8gr/m2+/-0.3 | | | | |
| 127205 | 4380051X | AH/5% | C/AC OP30-60 MP 0.8gr/m2+/-0.3 | | | | |
| 423700 | 4380009X | AH/5% | C/AC OP30-60 MP 0.8gr/m2+/-0.3 | | | | |

FIN DE DATOS

ACEROS BONDISCH
S. A. DE C. V.
RECIBIDO
OCT. 18 2012
RECIBIDO

EL COMPROMISO DE AHMSA ES SOLO CON EL CLIENTE INDICADO EN ESTE CERTIFICADO, Y SOLO ACEPTAMOS EL DOCUMENTO ORIGINAL. EMITIO : S0557849A