



**REPORTE DE CALIDAD DE TUBERIA
(Quality Report)**

Cód: FP-DQ-08-01

SISTEMA DE GESTION DE CALIDAD
(QUALITY MANNAGMENT SYSTEM)

Edición(Edition Code): 0 Revisión (Revision): 1

Fecha de Rev (Date of Revision):
04 Septiembre 2014

| | | | | | | | | | |
|--------------------------|---------|--------------------|----------------|-----------------------|---------|---------------|------------|--------------------------|-------------|
| Requerimiento (Request): | 5101791 | Ciente (Customer): | FERRE BARNIEDO | Remisión (Remission): | 5109992 | Fecha (Date): | 15/08/2015 | REPORTE FS (Report No.): | 15082015-24 |
|--------------------------|---------|--------------------|----------------|-----------------------|---------|---------------|------------|--------------------------|-------------|

| Tipo de Producto (Type of Pipe/Delivery Condition): | Orden Interna de Fabricación (Work Order) | Medida (Size) | Esesor (Thickness) pulg (In) | Esesor (Thickness) pulg (mm) | Longitud (Length) mtrs | Longitud (Length) pies (ft) | Norma (Specification): | Grado (Grade): | Peso Unitario (mass) lbs. | Peso Unitario (mass) kg. | Peso Lineal (Mass per meter) lbs. X pie | Peso Lineal (Mass per meter) kg. X mtr. | Números de Tubo (Pipe Number) |
|---|---|---------------|------------------------------|------------------------------|------------------------|-----------------------------|------------------------|----------------|---------------------------|--------------------------|---|---|-------------------------------|
| HSS | 1087 | 10X10 | 0.375 | 9.53 | 12.20 | 40.0 | ASTM A500 | Grado B/C | 1916.8 | 872.2 | 47.90 | 71.49 | 25 |

| No. Lote (Lote No.) | 1087-20-10 | 1087-20-11 | 1087-20-12 | 1087-20-13 | 1087-20-14 | 1087-20-15 | 1087-20-16 | 1087-20-20 | 1087-21-10 | 1087-21-11 | 1087-21-12 | 1087-21-13 | 1087-21-14 | 1087-21-15 | 1087-21-16 | 1087-21-17 | 1087-21-2 | 1087-21-3 | 1087-21-4 | 1087-21-5 |
|---------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|
| | 1087-21-6 | 1087-21-7 | 1087-21-8 | 1087-21-9 | 1087-4-12 | | | | | | | | | | | | | | | |

| No. Colada (Heat) | Composición Química del Acero (Chemical Composition) | | | | | | | | | | | Propiedades mecánicas del Acero de la Tubería (Steel Mechanical's Properties) | | | | | | |
|-------------------|--|-------|-----------|------------|------------|--------|--------|-------|-------|-------|-------|---|---------|---|---|-----------|---------------------------|----|
| | C | Si | Mn | P | S | V | Nb | Cr | Cu | Ni | Mo | Límite Tracción (Tensile Strength) KSI (MPA) | | | Límite Elástico (Yield Point) KSI (MPA) | | % Elongación (Elongation) | |
| | 0.26 MAX. | | 1.35 MAX. | 0.035 MAX. | 0.035 MAX. | | | | | | | L | T | W | L | T | | |
| 471529851 | 0.052 | 0.155 | 0.271 | 0.035 | 0.006 | 0.0026 | 0.0002 | 0.010 | 0.006 | 0.005 | 0.002 | 0.114 | 68(468) | - | - | 62.2(428) | - | 28 |
| 471539661 | 0.052 | 0.155 | 0.271 | 0.035 | 0.006 | 0.0026 | 0.0002 | 0.010 | 0.006 | 0.005 | 0.002 | 0.114 | 68(468) | - | - | 62.2(428) | - | 28 |

Este certificado ampara los números de serie de los tubos manifestados, los cuales fueron fabricados, inspeccionados y aceptados de acuerdo a los requerimientos de las especificaciones arriba mencionadas; FORZA STEEL no garantiza el producto que sea utilizado inapropiadamente. ("There no is guarantee on the use of these products for applications that are outside of the scope of the specification, or the inappropriate use of them")

Autorizó (Approve):

ING. HUGO SÁEZ VILLARREAL
Certificados y Pruebas Mecánicas Aseguramiento de Calidad
(Certificates and Mechanical Testing Quality Assurance)

FERRE BARNIEDO, S.A. DE C.V.
ESTE CERTIFICADO ES COPIA FIEL
DEL ORIGINAL DE NUESTROS ARCHIVOS
AMPARA LA REMISION No. _____
TEL 58-36-10-00 ventas@ferrebarniedo.com.mx