



TUBOS REUNIDOS GROUP, S.L.U

Barrio Sagarribai, 2 - 01470 AMURRIO (Spain)

Mill: TUBOS

Previously known as Tubos Reunidos Industrial

EN 10204:2004 / 3.1

CERTIFICADO DE CALIDAD MILL TEST CERTIFICATE

QUALITY
MANAGEMENT
SYSTEM
certified by
LRQA

THE BILLETS AND THE MATERIAL COVERED BY THIS CERTIFICATE ARE MANUFACTURED AT OUR STEEL PLANT IN AMURRIO, SPAIN.

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N° 0000358563/1 Rev. 000

EXCLUSION REQUEST NUMBER: 264714

Product description:
B/C/1/6_Seamless carbon steel pipe, hot rolled, according to Product Specifications information provided. Possible product quota category_
99038085_Pressure tubing and other products

#HTSUS: 7304390002

| | | | |
|--|--|--|---|
| CLIENTE: CUSTOMER | | PEDIDO / PARTIDA: P.ORDER / ITEM | 306875 5. |
| PRODUCTO: ARTICLE | TUBERÍA SIN SOLDADURA LAMINADA EN CALIENTE HOT FINISHED SEAMLESS TUBES | REF. FABRICA: WORK ORDER | 300021767 000050 |
| EXTREMOS: ENDS | LISOS A ESCUADRA SQUARE CUT PLAIN END | PROTECCIÓN SUPERF: EXT. COATING | LACA EXTERIOR EXTERNALLY DRY LACQUERED |
| NORMA / GRADO: APL.STANDARD AND GRADE | ASTM A106/A106M-19A / ASME II SA-106/SA-106M 2021 B/C | PROCESO FUSION: MELTING PROCESS | HORNO ELECTRICO ACERO TOTALMENTE CALMADO ELECTRIC FURNACE // FULLY KILLED |
| | | DIMENSIONAL STD: | ANSI/ASME B36.10M |
| ESPEC. ADICIONALES: ADDITIONAL SPECS. | NACE MR0175/ISO 15156 ED. 2015 NACE MR0103/ISO 17945 ED. 2015 | FAB. DE PALANQUILLA: BILLETS MANUFACTURE | COLADA CONTINUA CONTINUOUS CASTING |
| DIMENSIONES: DIMENSIONS | 1" NB X 0.250" X 20-22 FT. | | |
| MARCAS: MARKING | ESTAMPADO: DIE STAMPING | | |
| | PINTADO: STENCILLED | TUBOS ASTM/ASME A/SA106 B/C HN (HEAT) 2500,0 PSI 1 " NPS 0.250 " (LENG TH IN FEET) FT SPAIN TUBOS ASTM/ASME A/SA106 B/C HN (HEAT) 2500,0 PSI 1 " NPS 0.250 " (LENGTH IN FEET) FT | |
| | CODIGO COLOR: COLOUR CODE | | |

EST. SUMINISTRO: BRUTO LAMINACIÓN ENFRIADO AL AIRE / AS ROLLED COOLED IN STILL AIR
SUPPLYING COND

DESCRIPCION SUMINISTRO / DESCRIPTION OF DELIVERY

| ITEM FAB. T.R. ITEM | ITEM CLI. CLIENTS ITEM | LONG.INDIV (F) INDIVIDUAL LENGTH | COLADA CAST NR. | N° TUBOS QUANTITY | LONG. TOTAL (F) LENGTH | PESO(KG) WEIGHT |
|------------------------|---------------------------|-------------------------------------|--------------------|----------------------|---------------------------|--------------------|
| 000050 | 5. | 20,000 - 22,000 | 128124 | 2.030 | 43.217,784 | 55.697 |
| TOTAL | | | | 2.030 | 43.217,784 | 55.697 |

Lista de Bultos / Packing
List 793081

TUBOS REUNIDOS GROUP (MILL: TUBOS) GARANTIZA QUE TODOS LOS TUBOS CUBIERTOS POR ESTE CERTIFICADO CUMPLEN LOS REQUISITOS DEL PEDIDO Y CON LAS ESPECIFICACIONES ARRIBA MENCIONADAS.
TUBOS REUNIDOS GROUP (MILL: TUBOS) CERTIFY THAT ALL THE TUBES COVERED BY THIS CERTIFICATE COMPLY WITH ORDER REQUIREMENTS AND ABOVE MENTIONED SPECIFICATIONS.

AMURRIO 27.04.2022

CONTROL DE CALIDAD DE TUBOS REUNIDOS GROUP
Mill: TUBOS
TUBOS REUNIDOS GROUP (QUALITY CONTROL)

Borja Eguzabal

P.O.:



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ENSAYOS NO DESTRUCTIVOS / NON DESTRUCTIVE TESTS

| ENSAYO / TEST | %CONTROL / TEST RATE(%) | REQUISITOS / REQUIREMENTS | RESULTADO / RESULT |
|---|-------------------------|---------------------------|--------------------|
| VISUAL Y DIMENSIONAL/ VISUAL & DIMENSIONAL INSP. | 100% | | O.K. |
| P.HIDROSTATICA/ HYDROTEST | 100% | 2.500,0 PSI 5 SEC. | O.K. |

ENSAYOS TECNOLÓGICOS Y METALÚRGICOS / TECHNOLOGICAL AND METALLURGICAL TEST

DOBLADO AC/ A/SA 106 -OK
/BENDING

ANÁLISIS DE COLADA / CAST ANALYSIS

| | C | Mn | Si | P | S | Cr | Ni | Mo | Cu | V | Nb | C.E. |
|--------|--------|------|------|-------|--------|-------|-------|--------|--------|--------|--------|------|
| MIN. | | 0,29 | 0,10 | | | | | | | | | |
| MAX. | 0,30 | 1,06 | | 0,015 | 0,0100 | 0,400 | 0,400 | 0,1500 | 0,4000 | 0,0800 | | |
| 128124 | 0,1960 | 0,85 | 0,20 | 0,012 | 0,0018 | 0,080 | 0,090 | 0,0200 | 0,2100 | 0,0270 | 0,0010 | 0,38 |

ANÁLISIS DE PRODUCTO / PRODUCT ANALYSIS

| | C | Mn | Si | P | S | Cr | Ni | Mo | Cu | V | Nb | C.E. |
|--------|--------|------|------|-------|--------|-------|-------|--------|--------|--------|--------|------|
| MIN. | | 0,29 | 0,10 | | | | | | | | | |
| MAX. | 0,30 | 1,06 | | 0,015 | 0,0100 | 0,400 | 0,400 | 0,1500 | 0,4000 | 0,0800 | | |
| 128124 | 0,1900 | 0,84 | 0,20 | 0,012 | 0,0020 | 0,080 | 0,090 | 0,0200 | 0,2100 | 0,0210 | 0,0010 | 0,37 |
| 128124 | 0,1900 | 0,84 | 0,20 | 0,012 | 0,0020 | 0,080 | 0,090 | 0,0200 | 0,2100 | 0,0210 | 0,0010 | 0,37 |

FORMULAS

| | (01) |
|--------|-------|
| MIN. | |
| MAX. | 1,000 |
| 128124 | 0,421 |
| 128124 | 0,421 |

(01) Cr + Ni + Mo + Cu + V

ENSAYOS DE TRACCIÓN / TENSILE TEST

| COLADA CAST | N° | L/T (1) | TP (2) | DIMENSION (inches) | L.ELAST. YIELD POINT (Mpa) (3) | R.TRACC. T.STRENGTH (Mpa) | ALARG. ELONG. (%) (4) | Estricción Reduction of Area (%) | DUREZA HARDNESS (HRB) | MEDIA MEAN |
|----------------|----|------------|-----------|-------------------------|--|-----------------------------------|---------------------------------|---|-------------------------------|---------------|
| MIN. | | | | | 275 | 485 | | | | |
| MAX. | | | | | | | | | | 99 |
| 128124 | 1 | L | T | 1,323 x 0,291 | 338 | 512 | 48 | | 80 79 | 80 80 |
| 128124 | 2 | L | T | 1,319 x 0,287 | 328 | 520 | 46 | | 81 82 | 82 82 |

- (1) : L = LONGITUDINAL // T = TRANSVERSAL
 (2) : T = Full size tube // P = Strip specimen // C = Cylindrical // F = Flat specimen
 (3) : yield point (0,2%)
 (4) : Lo = 2" (50 mm)

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ANEXOS / ANNEX

FULLY KILLED
RADIATION FREE
MERCURY FREE
NO WELD REPAIR

AMURRIO 27.04.2022

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