

A01

ArcelorMittal Gipuzkoa, S.L.U.
 Long Carbon Europe
 CARRETERA MADRID - IRUN, KM. 419
 20212 OLABERRIA (Gulpuzcoa)
 TELEF. (943) 80.50.00 - FAX (943) 88.04.04



MILL TEST CERTIFICATE

OLA P-33220

| DISCHARGE ADDRESS | | CUSTOMER | |
|--|-------------------------|--|-----------------|
| Fortacero S.A. De C.V. Blvd Carlos Salinas de Gortari KM8.8 Apodaca MEXICO | | FORTACERO S.A. DE C.V. BLVD CARLOS SALINAS DEGORTARI KMB.8 APODACA MEXICO | |
| SHIPPED AND CERTIFIED BY | | CREDIT NUMBER | PORT OF LOADING |
| ARCELORMITTAL OLABERRIA CARRETERA MADRID - IRUN, KM. 419 20212 OLABERRIA (Gulpuzcoa) TELEF. (943) 80.50.00 - FAX (943) 88.04.04 | | | BILBAO, SPAIN |
| | | PORT OF DISCHARGE | VESSEL |
| | | ALTAMIRA | ARUBABORG |
| OUR REFERENCE | CONTRACT NUMBER | ORDER NUMBER | DATE |
| Igomez | 01-E-42262 / 1700015237 | 4500092246 | 24/10/2012 |

Material: WF Vigas,

El exportador de los productos incluidos en el presente documento,
 Autorización aduanera no.

ARCELORMITTAL GIPUZKOA, S.L.U. ES/20/0040/03

Declara que, salvo indicación en sentido contrario, estos
 productos gozan de un origen preferencial ESPAÑA

| SIZE | LENGTH | BUNDLES | PIECES BUNDLES | TOTAL PIECES | WEIGHT BUNDLES | TOTAL WEIGHT | HEAT |
|----------------|--------|---------|----------------|--------------|----------------|--------------|---|
| + / YELLOW | | | | | | | |
| WF BEAMS 10x33 | 40' | 38 | 8 | 304 | 4790 | 182.020 | 140078,140419,140968, 140971,140972,140973, 140974,140975,140976, 140977 |
| WF BEAMS 10x33 | 40' | 1 | 6 | 6 | 3592 | 3.592 | 140398 |
| WF BEAMS 10x45 | 40' | 1 | 4 | 4 | 3266 | 3.266 | 140392 |
| WF BEAMS 10x49 | 40' | 26 | 6 | 156 | 5334 | 138.884 | 140947,140948,140949, 140950 |
| WF BEAMS 12x40 | 40' | 49 | 6 | 294 | 4355 | 213.395 | 140684,140685,140686, 140687,140688,140689, 140690 |
| WF BEAMS 12x40 | 40' | 1 | 3 | 3 | 2177 | 2.177 | 140684 |
| WF BEAMS 12x58 | 40' | 1 | 3 | 3 | 3157 | 3.157 | 140703 |
| WF BEAMS 21x50 | 40' | 1 | 3 | 3 | 2722 | 2.722 | 140680,140887 |
| WF BEAMS 21x62 | 40' | 1 | 2 | 2 | 2250 | 2.250 | 140385 |

TOTAL BUNDLES 119

TOTAL WEIGHT 551.263 Kg.

| COLADA HEAT | COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%) | | | | | | | | | | | | CEV |
|----------------|---|-------|------|------|------|------|------|------|------|------|------|------|-----|
| | C | Mn | Si | P | S | V | Cr | Ni | Mo | Cu | Nb | Sn | |
| 140078 | .127 | 1.140 | .200 | .026 | .018 | .038 | .140 | .130 | .017 | .370 | .003 | .032 | .39 |

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| COLADA HEAT | COMPOSICION QUIMICA (%) CHEMICAL COMPOSITION (%) | | | | | | | | | | | | | CEV | | | | | | | |
|----------------|---|-------|------|------|------|------|------|------|------|------|------|------|-----|-----|--|--|--|--|--|--|--|
| | C | Mn | Si | P | S | V | Cr | Ni | Mo | Cu | Nb | Sn | | | | | | | | | |
| 140385 | .089 | 1.140 | .200 | .012 | .017 | .034 | .210 | .160 | .052 | .390 | .003 | .040 | .37 | | | | | | | | |
| 140392 | .114 | 1.240 | .170 | .018 | .023 | .040 | .220 | .160 | .038 | .440 | .003 | .040 | .42 | | | | | | | | |
| 140398 | .117 | 1.250 | .180 | .017 | .020 | .042 | .140 | .160 | .032 | .410 | .003 | .046 | .41 | | | | | | | | |
| 140419 | .096 | 1.230 | .210 | .021 | .016 | .039 | .210 | .220 | .085 | .390 | .003 | .034 | .40 | | | | | | | | |
| 140680 | .110 | 1.170 | .190 | .018 | .015 | .040 | .180 | .130 | .039 | .420 | .003 | .058 | .39 | | | | | | | | |
| 140684 | .133 | 1.190 | .210 | .022 | .013 | .039 | .210 | .160 | .040 | .380 | .003 | .047 | .43 | | | | | | | | |
| 140685 | .132 | 1.140 | .200 | .017 | .008 | .041 | .210 | .150 | .037 | .370 | .003 | .041 | .41 | | | | | | | | |
| 140686 | .118 | 1.130 | .210 | .024 | .011 | .041 | .300 | .230 | .044 | .310 | .003 | .030 | .42 | | | | | | | | |
| 140687 | .094 | 1.110 | .200 | .019 | .015 | .040 | .190 | .180 | .046 | .390 | .003 | .030 | .37 | | | | | | | | |
| 140688 | .123 | 1.150 | .210 | .022 | .008 | .046 | .200 | .190 | .047 | .440 | .003 | .050 | .42 | | | | | | | | |
| 140689 | .095 | 1.140 | .190 | .018 | .010 | .040 | .170 | .150 | .040 | .450 | .003 | .042 | .38 | | | | | | | | |
| 140690 | .091 | 1.140 | .170 | .017 | .013 | .039 | .160 | .170 | .045 | .370 | .003 | .040 | .37 | | | | | | | | |
| 140703 | .097 | 1.230 | .220 | .025 | .013 | .041 | .250 | .280 | .073 | .510 | .003 | .033 | .43 | | | | | | | | |
| 140887 | .105 | 1.240 | .200 | .021 | .010 | .041 | .180 | .170 | .034 | .470 | .003 | .052 | .40 | | | | | | | | |
| 140947 | .105 | 1.160 | .170 | .028 | .011 | .042 | .180 | .150 | .035 | .510 | .007 | .044 | .39 | | | | | | | | |
| 140948 | .091 | 1.140 | .180 | .030 | .010 | .042 | .160 | .120 | .035 | .570 | .004 | .049 | .37 | | | | | | | | |
| 140949 | .123 | 1.180 | .210 | .038 | .016 | .043 | .160 | .120 | .031 | .550 | .003 | .056 | .41 | | | | | | | | |
| 140950 | .097 | 1.210 | .200 | .034 | .015 | .042 | .170 | .110 | .026 | .550 | .008 | .040 | .39 | | | | | | | | |
| 140968 | .112 | 1.150 | .210 | .019 | .014 | .040 | .170 | .130 | .026 | .470 | .003 | .039 | .39 | | | | | | | | |
| 140971 | .108 | 1.120 | .210 | .015 | .015 | .038 | .180 | .150 | .033 | .500 | .003 | .044 | .38 | | | | | | | | |
| 140972 | .100 | 1.280 | .210 | .019 | .019 | .041 | .150 | .130 | .029 | .470 | .004 | .051 | .40 | | | | | | | | |
| 140973 | .089 | 1.140 | .180 | .024 | .011 | .038 | .130 | .130 | .030 | .430 | .003 | .055 | .36 | | | | | | | | |
| 140974 | .076 | 1.170 | .210 | .017 | .024 | .055 | .100 | .110 | .031 | .410 | .003 | .043 | .34 | | | | | | | | |
| 140975 | .093 | 1.100 | .190 | .015 | .013 | .042 | .130 | .130 | .027 | .420 | .003 | .039 | .35 | | | | | | | | |
| 140976 | .107 | 1.110 | .190 | .015 | .014 | .039 | .130 | .200 | .040 | .430 | .003 | .043 | .38 | | | | | | | | |
| 140977 | .095 | 1.090 | .190 | .013 | .019 | .037 | .100 | .170 | .035 | .420 | .003 | .041 | .35 | | | | | | | | |

| MATERIAL SIZE | COLADA HEAT | PROPIEDADES MECANICAS MECHANICAL PROPERTIES | | | | | |
|------------------|----------------|--|-----|-----------|-----|-------------|------|
| | | ReH MPa | | Rm MPa | | A% LO=8° | |
| 011 | 022 | 011 | | 012 | | 013 | |
| W-10x33 | 140078 | 406 | 398 | 571 | 579 | 23 | 23 |
| W-10x33 | 140398 | 446 | 446 | 551 | 550 | 22,5 | 21,8 |
| W-10x33 | 140419 | 402 | 391 | 575 | 571 | 22,7 | 22,3 |
| W-10x33 | 140968 | 396 | 380 | 525 | 507 | 24,2 | 23,8 |
| W-10x33 | 140971 | 425 | 412 | 548 | 535 | 22,3 | 21,7 |
| W-10x33 | 140972 | 429 | 421 | 547 | 538 | 22,1 | 22 |
| W-10x33 | 140973 | 381 | 379 | 510 | 509 | 22,6 | 22,4 |
| W-10x33 | 140974 | 423 | 412 | 528 | 510 | 22,7 | 22,2 |
| W-10x33 | 140975 | 417 | 403 | 538 | 534 | 23,5 | 22,6 |
| W-10x33 | 140976 | 410 | 398 | 535 | 521 | 22,3 | 22,2 |
| W-10x33 | 140977 | 420 | 406 | 529 | 509 | 23,4 | 22,9 |
| W-10x45 | 140392 | 433 | 421 | 567 | 549 | 22,3 | 22 |
| W-10x49 | 140947 | 421 | 414 | 539 | 532 | 22,5 | 22,2 |
| W-10x49 | 140948 | 427 | 424 | 557 | 543 | 22,2 | 21,9 |
| W-10x49 | 140949 | 409 | 397 | 547 | 537 | 23,4 | 22,8 |
| W-10x49 | 140950 | 449 | 449 | 619 | 613 | 22,3 | 22 |
| W-12x40 | 140684 | 430 | 413 | 578 | 568 | 23,6 | 23,2 |
| W-12x40 | 140685 | 447 | 447 | 615 | 589 | 23,9 | 23,2 |

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MILL TEST CERTIFICATE

OLA P-33220

| MATERIAL SIZE | COLADA HEAT | PROPIEDADES MECANICAS MECHANICAL PROPERTIES | | | | | |
|------------------|----------------|--|-----|-----------|-----|-------------|------|
| | | ReH MPa | | Rm MPa | | A% LO=B* | |
| D11 | A02 | D11 | | D12 | | D13 | |
| W-12x40 | 140686 | 423 | 409 | 625 | 613 | 23,4 | 22,5 |
| W-12x40 | 140687 | 410 | 394 | 557 | 543 | 23,1 | 22,6 |
| W-12x40 | 140688 | 420 | 420 | 587 | 569 | 22,7 | 22,1 |
| W-12x40 | 140689 | 409 | 402 | 543 | 529 | 23,1 | 22,6 |
| W-12x40 | 140690 | 402 | 393 | 527 | 520 | 26, | 25,6 |
| W-12x58 | 140703 | 435 | 425 | 577 | 565 | 22,4 | 22, |
| W-21x50 | 140680 | 433 | 425 | 543 | 537 | 22,6 | 21,8 |
| W-21x50 | 140887 | 395 | 393 | 526 | 524 | 24,4 | 23,6 |
| W-21x62 | 140385 | 423 | 412 | 544 | 521 | 22,7 | 22,4 |

27 análisis

D01: Certificamos que los aceros arriba indicados han sido satisfactoriamente probados de acuerdo con la especificación.
 B06: Marca AMO

Z01

Lorenzo Zabala