



|   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
|---|---------------------------------------|----------------------------|------------------------------|----------------------------|--------------------------|------|-------|------|--------|--------|--------|
| A01  ArcelorMittal Warszawa Sp. z o.o.  |                                       | A02                        | A03  Nr świadectwa           |                            | Data                     |      |       |      |        |        |        |
| ul. Kasprzowska 132   |                                       |                            | 10280.01/2012                |                            | 2012-03-06               |      |       |      |        |        |        |
| 01-949 Warszawa   |                                       |                            | -----                        |                            |                          |      |       |      |        |        |        |
| fax: 48/22 8354222, 48/22 8340952   |                                       |                            | A08  Numer potwierdzenia     |                            |                          |      |       |      |        |        |        |
| tlx: 82-53-51   |                                       |                            | 891745/2012 **1/*10          |                            |                          |      |       |      |        |        |        |
| -----   |                                       |                            | -----                        |                            |                          |      |       |      |        |        |        |
| A07   |                                       |                            | Wydział:                     |                            |                          |      |       |      |        |        |        |
|   |                                       |                            | F20                          |                            |                          |      |       |      |        |        |        |
| Nabywca   |                                       | Z04                        | A06  Nabywca                 |                            | (810713782)              |      |       |      |        |        |        |
| Zamówienie Nr   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| ZW08003445  |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| z dnia  |                                       |                            | TOM 2 SPÓŁKA Z O.O.          |                            |                          |      |       |      |        |        |        |
| 2012-03-02  |                                       |                            | POMORSKA 112                 |                            |                          |      |       |      |        |        |        |
|   |                                       |                            | 70-812 SZCZECIN              |                            |                          |      |       |      |        |        |        |
|   |                                       |                            | POLSKA                       |                            |                          |      |       |      |        |        |        |
|   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| <div style="display: flex; justify-content: space-around; align-items: center;">   </div> |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| Z01  Niniejszym deklarujemy, że wyrób jest zgodny z normami i innymi dokumentami powołanymi w treści niniejszego dokumentu  |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| -----   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| B01  Wyrób  | (NWD)                                 | B04  Stan dostawy          | (S)                          | Przeznaczenia wyrobu (PWB) |                          |      |       |      |        |        |        |
| Pręty Gorącowalcowane Okrągłe Żebrowane   |                                       | Surowy                     |                              | do zbrojenia betonu        |                          |      |       |      |        |        |        |
| -----   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| B02  Gatunek  | BSt500S                               | norma                      | DIN 488-1:84/DIN 488-2:86    |                            | B07 Nr wytopu 174609     |      |       |      |        |        |        |
| -----   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| B09  Wymiar   | [mm] R1                               | 10                         | Długość dokładna: 14,000 [m] |                            |                          |      |       |      |        |        |        |
|   |                                       | Tolerancja długości (+/-): |                              | 100,0 [mm]                 | 0,0 [mm]                 |      |       |      |        |        |        |
| -----   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| B13  Masa[kg]   | 23.080                                | B08  Wiazki                | 10                           | Normy                      |                          |      |       |      |        |        |        |
| -----   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| C71  Skład chemiczny wytopu [%]   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| C   | Mn                                    | Si                         | P                            | S                          | Cr                       | Ni   | Cu    | Mo   | V      | N      |        |
| 0,22  | 0,92                                  | 0,11                       | 0,022                        | 0,030                      | 0,12                     | 0,08 | 0,29  | 0,02 | 0,002  | 0,0090 |        |
| 27  |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| 0,43  |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| 27=Ce=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15;  |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| -----   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| C00  -Właściwości mechaniczne   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
|   | Próba                                 | C12                        | Rm [N/mm2]                   | C11                        | Re [N/mm2]               | C51  | Rm/Ra | C13  | A10[%] | C14    | Agt[%] |
|   | 1                                     |                            | 684                          |                            | 575                      |      | 1,19  |      | 18,1   |        | 11,5   |
|   | 2                                     |                            | 670                          |                            | 563                      |      | 1,19  |      | 18,5   |        | 11,1   |
|   | 3                                     |                            | 673                          |                            | 568                      |      | 1,18  |      | 16,8   |        | 11,7   |
| -----   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| C55  -Masa 1m pręta   | 0,605 [kg/m]                          |                            |                              |                            |                          |      |       |      |        |        |        |
|   | 0,605 [kg/m]                          |                            |                              |                            |                          |      |       |      |        |        |        |
|   | 0,605 [kg/m]                          |                            |                              |                            |                          |      |       |      |        |        |        |
| -----   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| C54  -Geometria uźebrowania II fr   | 0,068                                 |                            |                              |                            |                          |      |       |      |        |        |        |
|   | fr 0,069                              |                            |                              |                            |                          |      |       |      |        |        |        |
|   | fr 0,068                              |                            |                              |                            |                          |      |       |      |        |        |        |
| -----   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| C52  Zginania z odginaniem P/N  | P (Dodatni)                           |                            |                              |                            |                          |      |       |      |        |        |        |
| -----   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| Aprobata Techniczna IBDIM Nr AT/2008-03-2413, cert. ZETOM Nr 130/11   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| Aprobata techniczna ITB Nr AT-15-7950/2009, cert. ZETOM Nr 16/09  |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| -----   |                                       |                            |                              |                            |                          |      |       |      |        |        |        |
| Z03  Odpowiedzialny: Dział Jakości  | kierownik mgr inż. B. Dorota Pietrzyk |                            |                              |                            | Z02  2012-03-06 22:00:40 |      |       |      |        |        |        |