

Raccordi in acciaio per impianti ad alta pressione  
Steel fittings for high pressure plants

|                                         |                                                                         |                           |
|-----------------------------------------|-------------------------------------------------------------------------|---------------------------|
| CLIENTE / Purchaser<br><b>SAMIC SRL</b> | CERTIFICATO DI QUALITÀ / Works certificate<br><b>EN-AUD-P0204 3.1-B</b> | FOLIO / Sheet<br><b>1</b> |
| ORDINE / Order<br><b>010260RD103RD</b>  | N. <b>28452</b> DEC. / OJ <b>10/09/2001</b>                             |                           |

| ITEM<br>Item | QUANTITÀ<br>Quantity | DESCRIZIONE / Description          | COLATA<br>Heat | MATERIALE<br>Material | GEN. ORIG.<br>Mater. certif. | ACCIAIERIA<br>Steel plant |
|--------------|----------------------|------------------------------------|----------------|-----------------------|------------------------------|---------------------------|
| 16           | 5                    | ELBOW 90° 3 3000 NPT A105GAL.      | 33858          | A105                  | 4232/2798                    | RIVA                      |
| 32           | 30                   | UNION (L405) 1/2 3000 NPT A105GAL. | 49075          | A105                  | 566.9L                       | SIDENOR                   |
| 33           | 20                   | UNION (L307) 1 3000 NPT A105GAL.   | 50072          | A105                  | 716.9L                       | SIDENOR                   |
| 41           | 50                   | TEE 3/4 3000 SM A105               | 79238          | A105                  | 23951/2683                   | RIVA                      |
| 42           | 30                   | TEE 1 3000 SM A105                 | 40625          | A105                  | 9520/2736                    | LUCCINI                   |
| 43           | 20                   | TEE 1.1/4 3000 SM A105             | 53232          | A105                  | 2700/2643                    | SIDER SCAL                |
| 44           | 20                   | TEE 1.1/2 3000 SM A105             | 72972          | A105                  | 1689/2812                    | SIDER SCAL                |
| 45           | 20                   | TEE 2 3000 SM A105                 | 82392          | A105                  | 2120/2771                    | SIDER SCAL                |
| 46           | 50                   | ELBOW 90° 3/4 3000 SM A105         | 113528         | A105                  | 7910/2710                    | ACC. VENETE               |

ANALISI CHIMICA - Chemical Analysis

| COLATA<br>Heat | C<br>% | Mn<br>% | Si<br>% | P<br>% | S<br>% | Ni<br>% | Cr<br>% | Mo<br>% | Ti<br>% | V<br>% | Cu<br>% | Al<br>% | Nb<br>% | N<br>% | % | % | C.E.<br>% |
|----------------|--------|---------|---------|--------|--------|---------|---------|---------|---------|--------|---------|---------|---------|--------|---|---|-----------|
| 33858          | 0,190  | 0,98    | 0,19    | 0,014  | 0,017  | 0,06    | 0,12    | 0,010   |         | 0,003  | 0,160   | 0,005   | 0,001   |        |   |   | 0,39      |
| 49075          | 0,180  | 0,97    | 0,25    | 0,017  | 0,027  | 0,12    | 0,10    | 0,014   |         | 0,004  | 0,140   | 0,023   | 0,002   |        |   |   | 0,38      |
| 50072          | 0,190  | 0,98    | 0,27    | 0,012  | 0,029  | 0,11    | 0,23    | 0,025   |         | 0,003  | 0,180   | 0,023   | 0,002   |        |   |   | 0,42      |
| 79238          | 0,180  | 0,95    | 0,20    | 0,014  | 0,010  | 0,05    | 0,08    | 0,010   |         | 0,019  | 0,160   | 0,021   | 0,001   |        |   |   | 0,37      |
| 40625          | 0,190  | 1,04    | 0,22    | 0,009  | 0,004  | 0,02    | 0,14    | 0,043   |         | 0,001  | 0,016   | 0,022   | 0,002   |        |   |   | 0,40      |
| 53232          | 0,191  | 0,87    | 0,24    | 0,009  | 0,007  | 0,08    | 0,09    | 0,023   |         | 0,004  | 0,204   | 0,027   | 0,001   |        |   |   | 0,38      |
| 72972          | 0,200  | 0,89    | 0,27    | 0,007  | 0,006  | 0,11    | 0,05    | 0,023   |         | 0,005  | 0,198   | 0,019   | 0,002   |        |   |   |           |
| 82392          | 0,200  | 0,99    | 0,22    | 0,017  | 0,009  | 0,01    | 0,15    | 0,001   |         | 0,004  | 0,005   | 0,023   | 0,001   |        |   |   | 0,40      |
| 113528         | 0,172  | 1,01    | 0,21    | 0,006  | 0,003  | 0,14    | 0,09    | 0,025   |         | 0,001  | 0,236   | 0,036   | 0,002   |        |   |   | 0,39      |

CARATTERISTICHE MECCANICHE - Mechanical Test

| COLATA<br>Heat | R<br>Tensile<br>Strength<br>N/mm² | S<br>Yield Point<br>N/mm² | A: 2"<br>Elongation<br>% | C<br>Reduction<br>of area % | Bending<br>Test | Flattening<br>Test | Hydraulic<br>Test | HB<br>Hardness test | K<br>Impact test<br>J | Temp. °C | STATO DI FORNIT. (TRATT. TERM.)<br>Supply cond. (heat treatment) | TEMP.<br>°C | NOTE<br>Remarks |
|----------------|-----------------------------------|---------------------------|--------------------------|-----------------------------|-----------------|--------------------|-------------------|---------------------|-----------------------|----------|------------------------------------------------------------------|-------------|-----------------|
| 33858          | 504                               | 332                       | 31,0                     | 58,1                        |                 |                    |                   | 153 155             |                       |          |                                                                  |             |                 |
| 49075          | 500                               | 355                       | 36,2                     | 69,0                        |                 |                    |                   | 142 142             |                       |          |                                                                  |             |                 |
| 50072          | 516                               | 364                       | 35,5                     | 67,3                        |                 |                    |                   | 149 152             |                       |          |                                                                  |             |                 |
| 79238          | 507                               | 315                       | 32,0                     | 57,0                        |                 |                    |                   | 152 152             |                       |          |                                                                  |             |                 |
| 40625          | 525                               | 347                       | 27,0                     | 54,0                        |                 |                    |                   | 155 156             |                       |          |                                                                  |             |                 |
| 53232          | 525                               | 352                       | 29,0                     | 64,0                        |                 |                    |                   | 157 159             |                       |          |                                                                  |             |                 |
| 72972          | 500                               | 300                       | 28,0                     | 65,0                        |                 |                    |                   | 153 153             |                       |          |                                                                  |             |                 |
| 82392          | 520                               | 350                       | 26,0                     | 62,0                        |                 |                    |                   | 158 160             |                       |          |                                                                  |             |                 |
| 113528         | 525                               | 375                       | 23,0                     | 67,0                        |                 |                    |                   | 154 157             |                       |          |                                                                  |             |                 |

|                                                                                                                   |                |
|-------------------------------------------------------------------------------------------------------------------|----------------|
| NATURA DEL MATERIALE / Kind of material<br>Acciaio elaborato al forno elettrico<br>Steel made by electric furnace | NOTE / Remarks |
|-------------------------------------------------------------------------------------------------------------------|----------------|

|                                                                                  |                                   |                                              |                   |
|----------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------|-------------------|
| COLLAUDI INTERNI / Works inspection<br>Visivo/Dimensionale<br>Visual/Dimensional | RISULT.<br>Result<br>O.K.<br>O.K. | COLLAUDI SUPPLEMENTARI / Supplementary tests | RISULT.<br>Result |
|----------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------|-------------------|

|                                        |                                       |                     |
|----------------------------------------|---------------------------------------|---------------------|
| RESPONSABILE QUALITÀ / Quality Manager | ENTE COLLAUDATORE / Inspection agency | turozzi<br>fratelli |
|----------------------------------------|---------------------------------------|---------------------|

Raccordi in acciaio per impianti ad alta pressione  
Steel fittings for high pressure plants

|                                         |                                                                             |                            |
|-----------------------------------------|-----------------------------------------------------------------------------|----------------------------|
| CLIENTE / Purchaser<br><b>SAMIC SRL</b> | CERTIFICATO DI CONFORMITÀ<br>Works certificate<br><b>EN AUD P0204 3.1-B</b> | FOGLIO / Sheet<br><b>2</b> |
| ORDINE / Order<br><b>010260RD103R0</b>  | N. <b>28452</b> DEL / Of <b>10/09/2001</b>                                  |                            |

| ITEM<br>Item  | QUANTITÀ<br>Quantity | DESCRIZIONE / Description               | COLATA<br>Heat   | MATERIALE<br>Material | CERTIF. ORIS.<br>Mill certif. | ACCIAIERIA<br>Steel plant |
|---------------|----------------------|-----------------------------------------|------------------|-----------------------|-------------------------------|---------------------------|
| <del>49</del> | <del>40</del>        | <del>ELBOW 90° 1 3000 SM A105</del>     | <del>79294</del> | <del>A105</del>       | <del>8430/2779</del>          | <del>RIVA</del>           |
| <del>50</del> | <del>20</del>        | <del>ELBOW 90° 1.1/4 3000 SM A105</del> | <del>61900</del> | <del>A105</del>       | <del>1880/2727</del>          | <del>SIDER SCAL</del>     |
| <del>51</del> | <del>20</del>        | <del>ELBOW 90° 1.1/2 3000 SM A105</del> | <del>61900</del> | <del>A105</del>       | <del>1880/2727</del>          | <del>SIDER SCAL</del>     |
| <del>52</del> | <del>20</del>        | <del>ELBOW 90° 2 3000 SM A105</del>     | <del>71563</del> | <del>A105</del>       | <del>918/2000</del>           | <del>SIDER SCAL</del>     |
| <del>55</del> | <del>30</del>        | <del>ELBOW 45° 3/4 3000 SM A105</del>   | <del>78846</del> | <del>A105</del>       | <del>20875/2598</del>         | <del>RIVA</del>           |
| <del>56</del> | <del>20</del>        | <del>ELBOW 45° 1 3000 SM A105</del>     | <del>79238</del> | <del>A105</del>       | <del>23951/2683</del>         | <del>RIVA</del>           |
| <del>57</del> | <del>20</del>        | <del>ELBOW 45° 1.1/4 3000 SM A105</del> | <del>51154</del> | <del>A105</del>       | <del>1627/2190</del>          | <del>SIDER SCAL</del>     |
| <del>58</del> | <del>20</del>        | <del>ELBOW 45° 1.1/2 3000 SM A105</del> | <del>53804</del> | <del>A105</del>       | <del>2508/2494</del>          | <del>SIDER SCAL</del>     |
| <del>59</del> | <del>20</del>        | <del>ELBOW 45° 2 3000 SM A105</del>     | <del>61898</del> | <del>A105</del>       | <del>1791/2713</del>          | <del>SIDER SCAL</del>     |

ANALISI CHIMICA - Chemical Analysis

| COLATA<br>Heat   | C<br>%           | Mn<br>%         | Si<br>%         | P<br>%           | S<br>%           | Ni<br>%         | Cr<br>%         | Mo<br>%          | Ti<br>% | V<br>%           | Gu<br>%          | Al<br>%          | Nb<br>%          | N<br>% | % | % | C.E.<br>%       |
|------------------|------------------|-----------------|-----------------|------------------|------------------|-----------------|-----------------|------------------|---------|------------------|------------------|------------------|------------------|--------|---|---|-----------------|
| <del>79294</del> | <del>0,180</del> | <del>0,90</del> | <del>0,20</del> | <del>0,013</del> | <del>0,010</del> | <del>0,06</del> | <del>0,07</del> | <del>0,010</del> |         | <del>0,020</del> | <del>0,160</del> | <del>0,025</del> | <del>0,001</del> |        |   |   | <del>0,36</del> |
| <del>61900</del> | <del>0,190</del> | <del>0,86</del> | <del>0,23</del> | <del>0,015</del> | <del>0,010</del> | <del>0,02</del> | <del>0,14</del> | <del>0,001</del> |         | <del>0,003</del> | <del>0,013</del> | <del>0,023</del> | <del>0,001</del> |        |   |   | <del>0,36</del> |
| <del>61900</del> | <del>0,190</del> | <del>0,86</del> | <del>0,23</del> | <del>0,015</del> | <del>0,010</del> | <del>0,02</del> | <del>0,14</del> | <del>0,001</del> |         | <del>0,003</del> | <del>0,013</del> | <del>0,023</del> | <del>0,001</del> |        |   |   | <del>0,36</del> |
| <del>71563</del> | <del>0,189</del> | <del>0,90</del> | <del>0,25</del> | <del>0,026</del> | <del>0,006</del> | <del>0,09</del> | <del>0,11</del> | <del>0,015</del> |         | <del>0,005</del> | <del>0,194</del> | <del>0,028</del> | <del>0,001</del> |        |   |   | <del>0,38</del> |
| <del>78846</del> | <del>0,180</del> | <del>0,93</del> | <del>0,19</del> | <del>0,013</del> | <del>0,009</del> | <del>0,04</del> | <del>0,07</del> | <del>0,010</del> |         | <del>0,017</del> | <del>0,160</del> | <del>0,021</del> | <del>0,001</del> |        |   |   | <del>0,37</del> |
| <del>79238</del> | <del>0,180</del> | <del>0,95</del> | <del>0,20</del> | <del>0,014</del> | <del>0,010</del> | <del>0,05</del> | <del>0,08</del> | <del>0,010</del> |         | <del>0,019</del> | <del>0,160</del> | <del>0,021</del> | <del>0,001</del> |        |   |   | <del>0,37</del> |
| <del>51154</del> | <del>0,180</del> | <del>0,88</del> | <del>0,28</del> | <del>0,013</del> | <del>0,009</del> | <del>0,11</del> | <del>0,11</del> | <del>0,040</del> |         | <del>0,001</del> | <del>0,210</del> | <del>0,028</del> | <del>0,002</del> |        |   |   | <del>0,38</del> |
| <del>53804</del> | <del>0,180</del> | <del>0,89</del> | <del>0,25</del> | <del>0,016</del> | <del>0,008</del> | <del>0,09</del> | <del>0,12</del> | <del>0,017</del> |         | <del>0,005</del> | <del>0,264</del> | <del>0,022</del> | <del>0,001</del> |        |   |   | <del>0,39</del> |
| <del>61898</del> | <del>0,200</del> | <del>0,91</del> | <del>0,23</del> | <del>0,024</del> | <del>0,009</del> | <del>0,01</del> | <del>0,14</del> | <del>0,001</del> |         | <del>0,003</del> | <del>0,015</del> | <del>0,024</del> | <del>0,001</del> |        |   |   | <del>0,38</del> |

CARATTERISTICHE MECCANICHE - Mechanical Test

| COLATA<br>Heat   | R<br>Tensile<br>Strength<br>N/mm <sup>2</sup> | S<br>Yield Point<br>N/mm <sup>2</sup> | A: 2"<br>Elongation<br>% | C<br>Reduction<br>of area % | Bending<br>Test | Flattening<br>Test | Hydraulic<br>Test | HB<br>Hardness test | K<br>Impact test<br>J | Temp. °C | STATO DI FORNIT. (TRATT. TERM.)<br>Supply cond. (heat treatment) | TEMP.<br>°C | NOTE<br>Remarks |
|------------------|-----------------------------------------------|---------------------------------------|--------------------------|-----------------------------|-----------------|--------------------|-------------------|---------------------|-----------------------|----------|------------------------------------------------------------------|-------------|-----------------|
| <del>79294</del> | <del>500</del>                                | <del>310</del>                        | <del>32,0</del>          | <del>57,0</del>             |                 |                    |                   | <del>152 152</del>  |                       |          |                                                                  |             |                 |
| <del>61900</del> | <del>525</del>                                | <del>340</del>                        | <del>26,0</del>          | <del>62,0</del>             |                 |                    |                   | <del>155 158</del>  |                       |          |                                                                  |             |                 |
| <del>61900</del> | <del>525</del>                                | <del>340</del>                        | <del>26,0</del>          | <del>62,0</del>             |                 |                    |                   | <del>155 158</del>  |                       |          |                                                                  |             |                 |
| <del>71563</del> | <del>519</del>                                | <del>350</del>                        | <del>25,0</del>          | <del>61,0</del>             |                 |                    |                   | <del>153 156</del>  |                       |          |                                                                  |             |                 |
| <del>78846</del> | <del>505</del>                                | <del>312</del>                        | <del>33,0</del>          | <del>57,0</del>             |                 |                    |                   | <del>150 153</del>  |                       |          |                                                                  |             |                 |
| <del>79238</del> | <del>507</del>                                | <del>315</del>                        | <del>32,0</del>          | <del>57,0</del>             |                 |                    |                   | <del>152 152</del>  |                       |          |                                                                  |             |                 |
| <del>51154</del> | <del>531</del>                                | <del>381</del>                        | <del>26,0</del>          | <del>65,0</del>             |                 |                    |                   | <del>153 155</del>  |                       |          |                                                                  |             |                 |
| <del>53804</del> | <del>525</del>                                | <del>356</del>                        | <del>27,0</del>          | <del>63,0</del>             |                 |                    |                   | <del>151 156</del>  |                       |          |                                                                  |             |                 |
| <del>61898</del> | <del>535</del>                                | <del>350</del>                        | <del>26,0</del>          | <del>62,0</del>             |                 |                    |                   | <del>159 159</del>  |                       |          |                                                                  |             |                 |

|                                                                                                                   |                |
|-------------------------------------------------------------------------------------------------------------------|----------------|
| NATURA DEL MATERIALE / Kind of material<br>Acciaio elaborato al forno elettrico<br>Steel made by electric furnace | NOTE / Remarks |
|-------------------------------------------------------------------------------------------------------------------|----------------|

|                                                                                  |                                   |                                              |                   |
|----------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------|-------------------|
| COLLAUDI INTERNI / Works inspection<br>Visivo/Dimensionale<br>Visual/Dimensional | RISULT.<br>Result<br>O.K.<br>O.K. | COLLAUDI SUPPLEMENTARI / Supplementary tests | RISULT.<br>Result |
|----------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------|-------------------|

|                                        |                                       |                     |
|----------------------------------------|---------------------------------------|---------------------|
| RESPONSABILE QUALITÀ / Quality Manager | ENTE COLLAUDATORE / Inspection agency | turozzi<br>fratelli |
|----------------------------------------|---------------------------------------|---------------------|

Raccordi in acciaio per impianti ad alta pressione  
Steel fittings for high pressure plants

|                                         |                                                                         |                             |
|-----------------------------------------|-------------------------------------------------------------------------|-----------------------------|
| CLIENTE / Purchaser<br><b>SAMIC SRL</b> | CERTIFICATO DI COLLAUDO<br>Works certificate<br><b>ENAUDP0204 3.1.8</b> | Foglio<br>Sheet<br><b>3</b> |
| ORDINE / Order<br><b>010260RD103R0</b>  | N. <b>28452</b> DEL / OF <b>10/09/2001</b>                              |                             |

| ITEM<br>Item  | QUANTITÀ<br>Quantity | DESCRIZIONE / Description                | COLATA<br>Heat    | MATERIALE<br>Material | GERME ORIG.<br>Mater. certif. | ACCIAIERIA<br>Steel plant |
|---------------|----------------------|------------------------------------------|-------------------|-----------------------|-------------------------------|---------------------------|
| <del>62</del> | <del>30</del>        | <del>COUPLING 3/4 3000 SM A105</del>     | <del>79316</del>  | <del>A105</del>       | <del>3215/739.1</del>         | <del>I.M.S.</del>         |
| <del>63</del> | <del>20</del>        | <del>COUPLING 1 3000 SM A105</del>       | <del>78432</del>  | <del>A105</del>       | <del>67897/725.1</del>        | <del>I.M.S.</del>         |
| <del>64</del> | <del>20</del>        | <del>COUPLING 1.1/4 3000 SM A105</del>   | <del>71516</del>  | <del>A105</del>       | <del>576/696.1</del>          | <del>M.M.B.</del>         |
| <del>65</del> | <del>20</del>        | <del>COUPLING 1.1/2 3000 SM A105</del>   | <del>118764</del> | <del>A105</del>       | <del>15231/2794</del>         | <del>ACC. VENETE</del>    |
| <del>66</del> | <del>20</del>        | <del>COUPLING 2 3000 SM A105</del>       | <del>41259</del>  | <del>A105</del>       | <del>12151/2611</del>         | <del>LUCCINI</del>        |
| <del>69</del> | <del>20</del>        | <del>UNION (L503) 3/4 3000 SM A105</del> | <del>51919</del>  | <del>A105</del>       | <del>60801.9L</del>           | <del>SIDENOR</del>        |
| <del>70</del> | <del>10</del>        | <del>UNION (L309) 1 3000 SM A105</del>   | <del>A01416</del> | <del>A105</del>       | <del>29526.9L</del>           | <del>ACEROS UDOLA</del>   |
| <del>72</del> | <del>10</del>        | <del>UNION 1.1/2 3000 SM A105</del>      | <del>32565</del>  | <del>A105</del>       | <del>71277.9L</del>           | <del>RIVA</del>           |
| <del>73</del> | <del>10</del>        | <del>UNION 2 3000 SM A105</del>          | <del>74383</del>  | <del>A105</del>       | <del>19163.9L</del>           | <del>RIVA</del>           |

ANALISI CHIMICA - Chemical Analysis

| COLATA<br>Heat    | C<br>%           | Mn<br>%         | Si<br>%         | P<br>%           | S<br>%           | NI<br>%         | Cr<br>%         | Mo<br>%          | Ti<br>% | V<br>%           | Cu<br>%          | Al<br>%          | Nb<br>%          | N<br>% | % | % | C.E.<br>%       |
|-------------------|------------------|-----------------|-----------------|------------------|------------------|-----------------|-----------------|------------------|---------|------------------|------------------|------------------|------------------|--------|---|---|-----------------|
| <del>79316</del>  | <del>0,105</del> | <del>0,90</del> | <del>0,19</del> | <del>0,017</del> | <del>0,024</del> | <del>0,05</del> | <del>0,08</del> | <del>0,010</del> |         | <del>0,001</del> | <del>0,190</del> | <del>0,005</del> | <del>0,001</del> |        |   |   | <del>0,37</del> |
| <del>78432</del>  | <del>0,190</del> | <del>0,88</del> | <del>0,26</del> | <del>0,012</del> | <del>0,016</del> | <del>0,07</del> | <del>0,08</del> | <del>0,010</del> |         | <del>0,002</del> | <del>0,180</del> | <del>0,005</del> | <del>0,001</del> |        |   |   | <del>0,37</del> |
| <del>71516</del>  | <del>0,180</del> | <del>0,93</del> | <del>0,20</del> | <del>0,019</del> | <del>0,016</del> | <del>0,06</del> | <del>0,25</del> | <del>0,020</del> |         | <del>0,002</del> | <del>0,190</del> | <del>0,010</del> | <del>0,001</del> |        |   |   | <del>0,41</del> |
| <del>118764</del> | <del>0,186</del> | <del>1,01</del> | <del>0,22</del> | <del>0,009</del> | <del>0,005</del> | <del>0,12</del> | <del>0,08</del> | <del>0,026</del> |         | <del>0,001</del> | <del>0,226</del> | <del>0,039</del> | <del>0,002</del> |        |   |   | <del>0,40</del> |
| <del>41259</del>  | <del>0,170</del> | <del>1,10</del> | <del>0,23</del> | <del>0,016</del> | <del>0,004</del> | <del>0,01</del> | <del>0,11</del> | <del>0,004</del> |         | <del>0,002</del> | <del>0,011</del> | <del>0,027</del> | <del>0,003</del> |        |   |   | <del>0,38</del> |
| <del>51919</del>  | <del>0,200</del> | <del>1,00</del> | <del>0,27</del> | <del>0,019</del> | <del>0,034</del> | <del>0,13</del> | <del>0,22</del> | <del>0,031</del> |         | <del>0,003</del> | <del>0,210</del> | <del>0,025</del> | <del>0,002</del> |        |   |   | <del>0,44</del> |
| <del>A01416</del> | <del>0,200</del> | <del>0,97</del> | <del>0,26</del> | <del>0,009</del> | <del>0,033</del> | <del>0,07</del> | <del>0,10</del> | <del>0,030</del> |         | <del>0,004</del> | <del>0,110</del> | <del>0,028</del> | <del>0,001</del> |        |   |   | <del>0,40</del> |
| <del>32565</del>  | <del>0,190</del> | <del>1,05</del> | <del>0,23</del> | <del>0,012</del> | <del>0,010</del> | <del>0,07</del> | <del>0,11</del> | <del>0,010</del> |         | <del>0,020</del> | <del>0,150</del> | <del>0,034</del> | <del>0,001</del> |        |   |   | <del>0,41</del> |
| <del>74383</del>  | <del>0,180</del> | <del>0,96</del> | <del>0,27</del> | <del>0,016</del> | <del>0,009</del> | <del>0,05</del> | <del>0,08</del> | <del>0,010</del> |         | <del>0,002</del> | <del>0,170</del> | <del>0,007</del> | <del>0,001</del> |        |   |   | <del>0,37</del> |

CARATTERISTICHE MECCANICHE - Mechanical Test

| COLATA<br>Heat    | R<br>Tensile<br>Strength<br>N/mm <sup>2</sup> | S<br>Yield Point<br>N/mm <sup>2</sup> | A : 2"<br>Elongation<br>% | C<br>Reduction<br>of area % | Bending<br>Test | Flaming<br>Test | Hydraulic<br>Test | HB<br>Hardness test | K<br>Impact test<br>J | Temp. °C | STATO DI FORNIT. (TRATT. TERM.)<br>Supply cond. (heat treatment) | TEMP.<br>°C    | NOTE<br>Remarks |
|-------------------|-----------------------------------------------|---------------------------------------|---------------------------|-----------------------------|-----------------|-----------------|-------------------|---------------------|-----------------------|----------|------------------------------------------------------------------|----------------|-----------------|
| <del>79316</del>  | <del>506</del>                                | <del>314</del>                        | <del>33,0</del>           | <del>57,7</del>             |                 |                 |                   | <del>152 152</del>  |                       |          | <del>NORMALIZED</del>                                            | <del>900</del> |                 |
| <del>78432</del>  | <del>506</del>                                | <del>314</del>                        | <del>33,0</del>           | <del>57,7</del>             |                 |                 |                   | <del>155 155</del>  |                       |          |                                                                  |                |                 |
| <del>71516</del>  | <del>516</del>                                | <del>320</del>                        | <del>32,4</del>           | <del>56,6</del>             |                 |                 |                   | <del>155 159</del>  |                       |          |                                                                  |                |                 |
| <del>118764</del> | <del>538</del>                                | <del>385</del>                        | <del>25,0</del>           | <del>63,0</del>             |                 |                 |                   | <del>158 158</del>  |                       |          |                                                                  |                |                 |
| <del>41259</del>  | <del>508</del>                                | <del>337</del>                        | <del>28,2</del>           | <del>55,5</del>             |                 |                 |                   | <del>152 152</del>  |                       |          |                                                                  |                |                 |
| <del>51919</del>  | <del>537</del>                                | <del>379</del>                        | <del>35,0</del>           | <del>67,2</del>             |                 |                 |                   | <del>161 161</del>  |                       |          |                                                                  |                |                 |
| <del>A01416</del> | <del>548</del>                                | <del>390</del>                        | <del>39,0</del>           | <del>54,0</del>             |                 |                 |                   | <del>166 166</del>  |                       |          |                                                                  |                |                 |
| <del>32565</del>  | <del>512</del>                                | <del>357</del>                        | <del>28,6</del>           | <del>56,7</del>             |                 |                 |                   | <del>156 156</del>  |                       |          |                                                                  |                |                 |
| <del>74383</del>  | <del>510</del>                                | <del>316</del>                        | <del>32,8</del>           | <del>57,1</del>             |                 |                 |                   | <del>154 157</del>  |                       |          |                                                                  |                |                 |

|                                                                                                                          |                |
|--------------------------------------------------------------------------------------------------------------------------|----------------|
| NATURA DEL MATERIALE / Kind of material<br><b>Acciaio elaborato al forno elettrico</b><br>Steel made by electric furnace | NOTE / Remarks |
|--------------------------------------------------------------------------------------------------------------------------|----------------|

|                                                                                         |                                  |                                              |                   |
|-----------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------|-------------------|
| COLLAUDI INTERNI / Works inspection<br><b>Visivo/Dimensionale</b><br>Visual/Dimensional | RISULT.<br>Result<br><b>O.K.</b> | COLLAUDI SUPPLEMENTARI / Supplementary tests | RISULT.<br>Result |
|-----------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------|-------------------|

|                                        |                                       |                     |
|----------------------------------------|---------------------------------------|---------------------|
| RESPONSABILE QUALITÀ / Quality Manager | ENTE COLLAUDATORE / Inspection agency | turozzi<br>fratelli |
|----------------------------------------|---------------------------------------|---------------------|