

## TABELLE ACCIAI

### ACCIAI SPECIALI LEGATI:

Acciai la cui complessa composizione chimica contribuisce a conferire elevate caratteristiche di resistenza meccanica.

#### CARATTERISTICHE CHIMICHE ACCIAI SPECIALI LEGATI

| Acciaio                          | ELEMENTI CHIMICI (% sulla massa) |      |      |      |      |       |       |      |      |      |      |      |      |
|----------------------------------|----------------------------------|------|------|------|------|-------|-------|------|------|------|------|------|------|
|                                  | C                                |      | Si   | Mn   |      | P     | S     | Cr   |      | Mo   |      | Ni   |      |
|                                  | Min.                             | Max. | Max. | Min. | Max. | Max.  | Max.  | Min. | Max. | Min. | Max. | Min. | Max. |
| <b>41Cr4</b>                     | 0.38                             | 0.45 | 0.40 | 0.60 | 0.90 | 0.035 | 0.035 | 0.90 | 1.20 | –    | –    | –    | –    |
| <b>25CrMo4</b>                   | 0.22                             | 0.29 | 0.40 | 0.60 | 0.90 | 0.035 | 0.035 | 0.90 | 1.20 | 0.15 | 0.30 | –    | –    |
| <b>30CrMo4</b>                   | 0.27                             | 0.34 | 0.35 | 0.35 | 0.60 | 0.035 | 0.035 | 0.80 | 1.15 | 0.15 | 0.30 | –    | –    |
| <b>34CrMo4</b>                   | 0.30                             | 0.37 | 0.40 | 0.60 | 0.90 | 0.035 | 0.035 | 0.90 | 1.20 | 0.15 | 0.30 | –    | –    |
| <b>42CrMo4</b>                   | 0.38                             | 0.45 | 0.40 | 0.60 | 0.90 | 0.035 | 0.035 | 0.90 | 1.20 | 0.15 | 0.30 | –    | –    |
| <b>36CrNiMo4</b>                 | 0.32                             | 0.40 | 0.40 | 0.50 | 0.80 | 0.035 | 0.035 | 0.90 | 1.20 | 0.15 | 0.30 | 0.90 | 1.20 |
| <b>30CrNiMo8</b>                 | 0.26                             | 0.34 | 0.40 | 0.30 | 0.60 | 0.035 | 0.035 | 1.80 | 2.20 | 0.30 | 0.50 | 1.80 | 2.20 |
| <b>41NiCrMo7-3-2<sup>1</sup></b> | 0.38                             | 0.44 | 0.30 | 0.60 | 0.90 | 0.025 | 0.025 | 0.70 | 0.90 | 0.15 | 0.30 | 1.65 | 2.00 |

<sup>1</sup>Cu ≤ 0.25%





CARATTERISTICHE MECCANICHE ACCIAI SPECIALI LEGATI

| Acciaio               | Stato di fornitura | Snervamento min. (ReH)<br>(N/mm <sup>2</sup> =Mpa) |             |              |              | Rottura min. (Rm)<br>(N/mm <sup>2</sup> =Mpa) |             |              |              | Allungamento longitudinale min. % |             |              |              | Resilienza longitudinale |             |                 |
|-----------------------|--------------------|--|-------------|--------------|--------------|---|-------------|--------------|--------------|-----------------------------------|-------------|--------------|--------------|--------------------------|-------------|-----------------|
|                       |                    | Per spessori nominali in mm                        |             |              |              |   |             |              |              |                                   |             |              |              | Temp. (°C)               | Spess. (mm) | Valore (J min.) |
|                       |                    | ≤ 8  | > 8<br>≤ 20 | > 20<br>≤ 50 | > 50<br>≤ 80 | ≤ 8   | > 8<br>≤ 20 | > 20<br>≤ 50 | > 50<br>≤ 80 | ≤ 8                               | > 8<br>≤ 20 | > 20<br>≤ 50 | > 50<br>≤ 80 |                          |             |                 |
| <b>41Cr4</b>          | +QT                | 800  | 660         | 560          | -            | 1000  | 900         | 800          | -            | 11                                | 12          | 14           | -            | +20                      | ≤ 8         | 30              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 8 ≤ 20    | 35              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 20 ≤ 60   | 35              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 60 ≤ 100  | -               |
| <b>25CrMo4</b>        | +QT                | 700  | 600         | 450          | 400          | 900   | 800         | 700          | 650          | 12                                | 14          | 15           | 16           | +20                      | ≤ 8         | 45              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 8 ≤ 20    | 50              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 20 ≤ 60   | 50              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 60 ≤ 100  | 45              |
| <b>30CrMo4</b>        | +QT                | 750  | 630         | 520          | 480          | 950   | 850         | 750          | 700          | 12                                | 13          | 14           | 15           | +20                      | ≤ 8         | 40              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 8 ≤ 20    | 45              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 20 ≤ 60   | 45              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 60 ≤ 100  | 45              |
| <b>34CrMo4</b>        | +QT                | 800  | 650         | 550          | 500          | 1000  | 900         | 800          | 750          | 11                                | 12          | 14           | 15           | +20                      | ≤ 8         | 35              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 8 ≤ 20    | 40              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 20 ≤ 60   | 45              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 60 ≤ 100  | 45              |
| <b>42CrMo4</b>        | +QT                | 900  | 750         | 650          | 550          | 1100  | 1000        | 900          | 800          | 10                                | 11          | 12           | 13           | +20                      | ≤ 8         | 30              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 8 ≤ 20    | 35              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 20 ≤ 60   | 35              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 60 ≤ 100  | 35              |
| <b>36CrNi-Mo4</b>     | +QT                | 900  | 800         | 700          | 600          | 1100  | 1000        | 900          | 800          | 10                                | 11          | 12           | 13           | +20                      | ≤ 8         | 35              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 8 ≤ 20    | 40              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 20 ≤ 60   | 45              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 60 ≤ 100  | 45              |
| <b>30CrNi-Mo8</b>     | +QT                | 1050   | 1050        | 900          | 800          | 1250  | 1250        | 1100         | 1000         | 9                                 | 9           | 10           | 11           | +20                      | ≤ 8         | 30              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 8 ≤ 20    | 30              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 20 ≤ 60   | 35              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 60 ≤ 100  | 45              |
| <b>41NiCr-Mo7-3-2</b> | +QT                | 950  | 870         | 800          | 750          | 1150  | 1050        | 1000         | 900          | 9                                 | 10          | 11           | 12           | +20                      | ≤ 8         | 35              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 8 ≤ 20    | 40              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 20 ≤ 60   | 45              |
|                       |                    |  |             |              |              |   |             |              |              |                                   |             |              |              |                          | > 60 ≤ 100  | 45              |

N.B. Il test di resilienza è opzionale, in caso di necessità deve quindi essere richiesto espressamente.