

|                                                                                            |                                 |                  |              |              |           |              |
|--------------------------------------------------------------------------------------------|---------------------------------|------------------|--------------|--------------|-----------|--------------|
| Quality                                                                                    | 708M40                          |                  |              |              |           |              |
| According to Standard                                                                      | PD 970:2005                     |                  |              |              |           |              |
| Number                                                                                     | -                               |                  |              |              |           |              |
| Comparable Standards                                                                       | W.N.                            |                  | AISI         |              |           |              |
|                                                                                            | -                               |                  | -            |              |           |              |
| Chemical Analysis                                                                          | C %                             | Mn %             | Si %         | Cr %         | Ni %      | Mo %         |
|                                                                                            | 0.36 to 0.44                    | 0.70 to 1.00     | —            | 0.90 to 1.20 | —         | 0.15 to 0.25 |
|                                                                                            | P%                              | S%               |              |              |           |              |
|                                                                                            | —                               | —                |              |              |           |              |
| Hot Work and Heat Treatment Temperatures                                                   |                                 |                  |              |              |           |              |
|                                                                                            | Preheat Treatment °C            | Austenitizing °C | Hardening °C | Tempering °C |           |              |
|                                                                                            | No Hardenability data specified |                  | 860 to 890   | 550 to 700   |           |              |
| Mechanical Properties at Room Temperature                                                  |                                 |                  |              |              |           |              |
| Condition                                                                                  | Ø                               | Rp0,2 min.       | Rm           | A min. %     | KV min. J | Max Hardness |
|                                                                                            | mm.                             | N/mm2            | N/mm2        |              |           | HB           |
| Hardened and tempered + turned or ground                                                   | R > 150 ≤ 250                   | 480              | 700 to 850   | 15           | 28        | 201 to 255   |
|                                                                                            | R > 63 ≤ 150                    | 510              | 700 to 850   | 17           | 50        | 201 to 255   |
|                                                                                            | S > 29 ≤ 100                    | 570              | 775 to 925   | 15           | 50        | 223 to 277   |
|                                                                                            | T > 6 ≤ 63                      | 665              | 850 to 1000  | 13           | 50        | 248 to 302   |
|                                                                                            | U > 6 ≤ 29                      | 740              | 925 to 1075  | 12           | 42        | 269 to 331   |
|                                                                                            | V > 6 ≤ 19                      | 835              | 1000 to 1150 | 12           | 42        | 293 to 352   |
|                                                                                            | W > 6 ≤ 13 <sup>d</sup>         | 925              | 1075 to 1225 | 12           | 35        | 311 to 375   |
| Hardened and tempered + cold drawn or hardened tempered + cold drawn + ground              | R > 63 ≤ 150                    | 525              | 700 to 850   | 12           | 50        | 201 to 255   |
|                                                                                            | S > 29 ≤ 100                    | 585              | 775 to 925   | 11           | 50        | 223 to 277   |
|                                                                                            | T > 6 ≤ 63                      | 680              | 850 to 1000  | 9            | 50        | 248 to 302   |
|                                                                                            | U > 6 ≤ 29                      | 755              | 925 to 1075  | 9            | 42        | 269 to 331   |
|                                                                                            | V > 6 ≤ 19                      | 850              | 1000 to 1150 | 9            | 42        | 293 to 352   |
|                                                                                            | W > 6 ≤ 13 <sup>d</sup>         | 940              | 1075 to 1225 | 8            | 35        | 311 to 375   |
| Softened + turned, ground or cold drawn or turned, ground or cold drawn + finally softened | -                               | -                | -            | -            | -         | 248 max.     |