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| Material No.                                  | 1.1730   |
| US standard (AISI)                            | -  |
| Abbreviation                                  | C45U   |
| Old designation                               | C 45 W   |
| Description                                   | Tool steel   |
| Composition<br>Alloy constituents [%]         | <ul style="list-style-type: none"> <li>■ C: 0.42 - 0.50</li> <li>■ Si: 0.15 - 0.40</li> <li>■ Mn: 0.60 - 0.80</li> <li>■ P: ≤ 0.030</li> <li>■ S: ≤ 0.030</li> </ul> |
| Density [g/cm <sup>3</sup> ]                  | 7.85   |
| Yield point<br>Rp0.2 / Re[N/mm <sup>2</sup> ] | -  |
| Tensile strength<br>Rm [N/mm <sup>2</sup> ]   | Resistance to wear and tear<br>1080 – 1270   |
| Elongation after fracture A [%]               | -  |
| Machinability                                 | very good  |
| Weldability                                   | suitable   |
| Heat treatment                                | possible   |
| Other properties                              | -  |
| Main uses                                     | <ul style="list-style-type: none"> <li>■ UNI lock clamping stations</li> <li>■ Screwdrivers</li> <li>■ Chisels</li> <li>■ Knives</li> </ul>                          |