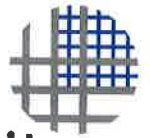


# Specifications

mesh in detail



## Materials and specifications

|                          | material designation                               | material number | specific gravity    | designation   | tensile strength<br>N/mm <sup>2</sup> | working temperature<br>°C air temperature |
|--------------------------|--|-----------------|---------------------|---|---------------------------------------|---|
| Stainless steel          | nickel-chromium steel, stainless                   | 1.4301          | 7,9                 | X 5 Cr Ni 18.9  | 600-800                               | 300                                       |
|                          |  | 1.4306          | 7,9                 | X 2 Cr Ni Ti 189                                      | 600-800                               | 350                                       |
|                          |  | 1.4541          | 7,9                 | X 10 Cr Ni Ti 189                                     | 600-800                               | 400                                       |
|                          | nickel-chromium steel, molybdenum steel, stainless | 1.4401          | 7,9                 | X 5 Cr Ni Mo 18 10                                    | 600-800                               | 300                                       |
|                          |  | 1.4404          | 7,9                 | X 2 Cr Ni Mo 18 10                                    | 600-800                               | 400                                       |
|                          |  | 1.4439          | 7,9                 | X 3 Cr Ni Mo N 17135                                  | 600-800                               | 400                                       |
|                          |  | 1.4539          | 8,0                 | X 2 Ni Cr Mo Cu 25205                                 | 600-800                               | 300                                       |
|                          | nickel-chromium steel, highly heat resistant       | 1.4571          | 7,9                 | X 10 Cr Ni Mo Ti 18 10                                | 600-800                               | 400                                       |
|                          |  | 1.4828          | 7,9                 | X 15 Cr Ni Si 20 12                                   | 700-900                               | 1000                                      |
|                          |  | 1.4841          | 7,9                 | X 15 Cr Ni Si 25 20                                   | 700-900                               | 1150                                      |
|                          | 1.4864   | 8,0             | X 12 Ni Cr Si 36 16 | 700-900   | 1100                                  |   |
|                          | chromium steel                                     | 1.4016          | 7,7                 | X 8 Cr 17   | 450-600                               | 300                                       |
| Heating conductor alloys | nickel-chromium steel                              | 2.4869          | 8,3                 | Ni Cr 80 20   | 600-800                               | 1250                                      |
|                          | alu-chromium                                       | 1.4767          | 7,2                 | Cr Al 20 5  | 600-800                               | 1300                                      |
|                          | alu-chromium                                       | 2.4725          | 7,3                 | Cr Al 14 4  | 600-800                               | 1050                                      |
| Special alloys           | incoloy 800  | 1.4876          | 8,0                 | X 10 Ni Cr Al Ti 32 20                                | 550-760                               | 1000                                      |
|                          | incoloy 825  | 2.4858          | 8,1                 | Ni Cr 21 Mo   | 550-760                               | 540                                       |
|                          | incoloy 600  | 2.4816          | 8,5                 | Ni Cr 15 FE   | 580-800                               | 1150                                      |
|                          | incoloy 625  | 2.4856          | 8,4                 | Ni Cr 22 Mo 9 Nb                                      | 750-900                               | 1050                                      |
| Non-ferrous metals       | copper   | 2.0100          | 8,96                | E - Cu  | 200-300                               | 100                                       |
|                          | brass  | 2.0321          | 8,53                | Cu Zn 37 (Ms 63)                                      | 350-450                               | 200                                       |
|                          | brass-tomb.  | 2.0250          | 8,67                | Cu Zn 20 (Ms 80/20)                                   | 320-400                               | 200                                       |
|                          | tin bronze   | 2.1020          | 8,82                | Cu Sn 6 (phosphor-bronze)                             | 350-450                               | 200                                       |
|                          | tin bronze   | 2.1020          | 8,85                | Cu Sn 7,5   | 360-470                               | 200                                       |
|                          | tin bronze   | 2.1030          | 8,87                | Cu Sn 8,5   | 370-480                               | 200                                       |
|                          | nickel   | 2.4060          | 8,90                | Ni 99,6   | 430-550                               | 250                                       |
|                          | nickel   | 2.4066          | 8,90                | Ni 99,2   | 410-550                               | 350                                       |
|                          | monel  | 2.4360          | 8,80                | Ni Cu 30 Fe   | 190-260                               | 350                                       |
|                          | aluminium  | 3.0280          | 2,70                | aluminium various alloys<br>Al 99,5, Al Mg 3, Al Mg 5 |                                       | 150                                       |
| Steel                    | steel  | 1.0012          | 7,85                | FE<br>crude, galvanized, tinned                       | 350-650                               | 450                                       |
| Hastelloy                | hastelloy C 4                                      | 2.4610          | 8,64                | Ni Mo 16 Cr 16 Ti                                     | 700-900                               | 1050                                      |
|                          | hastelloy B 2                                      | 2.4617          | 9,22                | Ni Mo 28  | 750-950                               | 750                                       |
|                          | hastelloy C 270                                    | 2.4819          | 8,64                | Ni Mo 16 Cr 15 W                                      | 750-950                               | 700                                       |
| Titanium                 | tantalum   |                 | 16,6                | tantalum  | 300-500                               | 1700                                      |
|                          | titanium   | 3.7025          | 4,5                 | Ti 1  | 300-420                               | 650                                       |
|                          | titanium   | 3.7035          | 4,5                 | Ti 2  | 400-550                               | 650                                       |