

This page is mainly introduced the 1.4724 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 1.4724, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel 1.4724

| 1.4724 Standard Number: |                 |   |
|-------------------------|-----------------|---|
| ITEM                    | Standard Number | Descriptions  |
| 1                       | BS EN 10088-1   | Stainless steels - Part 1: List of stainless steels |
| 2                       | BS EN 10095     | Heat resisting steels and nickel alloys             |

| 1.4724 Chemical composition (mass fraction) (wt.%) |    |         |    |    |    |         |    |    |       |
|--|----|---------|----|----|----|---------|----|----|-------|
| Chemical   |    | Min.(%) |    |    |    | Max.(%) |    |    |       |
| C  |    |         |    |    |    | 0.12    |    |    |       |
| Si   |    | 0.70    |    |    |    | 1.40    |    |    |       |
| Mn   |    |         |    |    |    | 1.00    |    |    |       |
| P  |    |         |    |    |    | 0.040   |    |    |       |
| S  |    |         |    |    |    | 0.015   |    |    |       |
| Cr   |    | 12.00   |    |    |    | 14.00   |    |    |       |
| Ni   |    |         |    |    |    |         |    |    |       |
| Al   |    | 0.70    |    |    |    | 1.20    |    |    |       |
| C  | Si | Mn      | P  | S  | Cr | Ni      | Mo | V  | Ta    |
| W  | N  | Cu      | Co | Pb | B  | Nb      | Al | Ti | Other |
|  |    |         |    |    |    |         |    |    |       |

### Heat resisting steels and nickel alloys

| 1.4724 Physical Properties |         |                          |
|----------------------------|---------|--------------------------|
| Tensile strength           | 115-234 | $\sigma_b$ /MPa          |
| Yield Strength             | 23      | $\sigma_{0.2} \geq$ /MPa |
| Elongation                 | 65      | $65 \geq$ (%)            |

|        |         |                 |
|--------|---------|-----------------|
| $\psi$ | -       | $\psi \geq$ (%) |
| Akv    | -       | $Akv \geq$ /J   |
| HBS    | 123-321 | -               |
| HRC    | 30      | -               |

### 1.4724 Mechanical Properties

|                  |         |                          |
|------------------|---------|--------------------------|
| Tensile strength | 231-231 | $\sigma_b$ /MPa          |
| Yield Strength   | 154     | $\sigma_{0.2} \geq$ /MPa |
| Elongation       | 56      | $\delta_5 \geq$ (%)      |
| $\psi$           | -       | $\psi \geq$ (%)          |
| Akv              | -       | $Akv \geq$ /J            |
| HBS              | 235-268 | -                        |
| HRC              | 30      | -                        |

### 1.4724 Heat Treatment Regime

| Annealing | Quenching | Tempering | Normalizing | Q & T |
|-----------|-----------|-----------|-------------|-------|
| √         | √         | √         | √           | √     |

### 1.4724 Range of products

| Product type    | Products                                 | Dimension                  | Processes                                   | Deliver Status  |
|-----------------|--|----------------------------|---|---|
| Plates / Sheets | Plates / Sheets                          | 0.08-200mm(T)*W*L          | Forging, hot rolling and cold rolling       | Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting |
| Steel Bar       | Round Bar, Flat Bar, Square Bar          | $\Phi$ 8-1200mm*L          | Forging, hot rolling and cold rolling, Cast | Black, Rough Turning, Shot Blasting,                          |
| Coil / Strip    | Steel Coil /Steel Strip                  | 0.03-16.0x1200mm           | Cold-Rolled & Hot-Rolled                    | Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting |
| Pipes / Tubes   | Seamless Pipes/Tubes, Welded Pipes/Tubes | OD:6-219mm x WT:0.5-20.0mm | Hot extrusion, Cold Drawn, Welded           | Annealed, Solution and Aging, Q+T, ACID-WASHED                |

**We can produce Specialsteel the specifications follows:**