

This page is mainly introduced the B??2-B? Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of B??2-B?, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel ВЖЛ2-ВИ

### B??2-B? Standard Number:

| ITEM | Standard Number | Descriptions |
|------|-----------------|--------------|
|------|-----------------|--------------|

### B??2-B? Chemical composition (mass fraction) (wt.%)

| Chemical | Min.(%) | Max.(%) |    |    |    |    |    |    |       |
|----------|---------|---------|----|----|----|----|----|----|-------|
| Si       | 1.00    | 2.00    |    |    |    |    |    |    |       |
| Mn       |         |         |    |    |    |    |    |    |       |
| P        |         |         |    |    |    |    |    |    |       |
| S        |         | 0.02    |    |    |    |    |    |    |       |
| B        |         | 0.015   |    |    |    |    |    |    |       |
| Ce       |         |         |    |    |    |    |    |    |       |
| Zr       |         |         |    |    |    |    |    |    |       |
| Y        |         |         |    |    |    |    |    |    |       |
| Pb       |         |         |    |    |    |    |    |    |       |
| Bi       | 2.00    | 3.50    |    |    |    |    |    |    |       |
| C        | Si      | Mn      | P  | S  | Cr | Ni | Mo | V  | Ta    |
| W        | N       | Cu      | Co | Pb | B  | Nb | Al | Ti | Other |
|          |         |         |    |    |    |    |    |    |       |

Russia GOCT Standard vacuum smelting casting high temperature alloy bar

### B??2-B? Physical Properties

|                  |         |                 |
|------------------|---------|-----------------|
| Tensile strength | 115-234 | $\sigma_b$ /MPa |
|------------------|---------|-----------------|

|                |         |                                  |
|----------------|---------|----------------------------------|
| Yield Strength | 23      | $\sigma_{0.2} \geq / \text{MPa}$ |
| Elongation     | 65      | $\delta 5 \geq (\%)$             |
| $\psi$         | -       | $\psi \geq (\%)$                 |
| Akv            | -       | $Akv \geq / \text{J}$            |
| HBS            | 123-321 | -                                |
| HRC            | 30      | -                                |

| B??2-B? Mechanical Properties |         |                                  |
|-------------------------------|---------|----------------------------------|
| Tensile strength              | 231-231 | $\sigma_b / \text{MPa}$          |
| Yield Strength                | 154     | $\sigma_{0.2} \geq / \text{MPa}$ |
| Elongation                    | 56      | $\delta 5 \geq (\%)$             |
| $\psi$                        | -       | $\psi \geq (\%)$                 |
| Akv                           | -       | $Akv \geq / \text{J}$            |
| HBS                           | 235-268 | -                                |
| HRC                           | 30      | -                                |

| B??2-B? Heat Treatment Regime |           |           |             |       |
|-------------------------------|-----------|-----------|-------------|-------|
| Annealing                     | Quenching | Tempering | Normalizing | Q & T |
| √                             | √         | √         | √           | √     |

| B??2-B? 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          | $\Phi 8-1200\text{mm} * L$ | 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:**