

This page is mainly introduced the NA37 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of NA37, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel NA37

### NA37 Standard Number:

| ITEM | Standard Number | Descriptions   |
|------|-----------------|--|
| 1    | BS 2901-5       | Filler rods and wires for gas-shielded arc welding; Nickel and nickel alloys |

### NA37 Chemical composition (mass fraction) (wt.%)

| Chemical | Min.(%) | Max.(%)   |    |    |    |    |    |    |       |
|----------|---------|-----------|----|----|----|----|----|----|-------|
| C        |         | 0.15      |    |    |    |    |    |    |       |
| Si       | 3.50    | 4.50      |    |    |    |    |    |    |       |
| Mn       |         | 1.50      |    |    |    |    |    |    |       |
| P        |         | 0.030     |    |    |    |    |    |    |       |
| S        |         | 0.030     |    |    |    |    |    |    |       |
| Cr       |         |           |    |    |    |    |    |    |       |
| Mo       |         |           |    |    |    |    |    |    |       |
| Ni       |         | remaining |    |    |    |    |    |    |       |
| Cu       | 28.00   | 34.00     |    |    |    |    |    |    |       |
| C        | Si      | Mn        | P  | S  | Cr | Ni | Mo | V  | Ta    |
| W        | N       | Cu        | Co | Pb | B  | Nb | Al | Ti | Other |
|          |         |           |    |    |    |    |    |    |       |

Filler rods and wires for gas-shielded arc welding; Nickel and nickel alloys

### NA37 Physical Properties

| NA37 Physical Properties |         |                          |
|--------------------------|---------|--------------------------|
| Tensile strength         | 115-234 | $\sigma_b$ /MPa          |
| Yield Strength           | 23      | $\sigma_{0.2} \geq$ /MPa |
| Elongation               | 65      | $\delta 5 \geq$ (%)      |
| $\psi$                   | -       | $\psi \geq$ (%)          |
| Akv                      | -       | Akv $\geq$ /J            |
| HBS                      | 123-321 | -                        |
| HRC                      | 30      | -                        |

### NA37 Mechanical Properties

| NA37 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      | -                        |

### NA37 Heat Treatment Regime

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

### NA37 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, | $\Phi 8$ -1200mm*L | Forging, hot rolling and              | Black, Rough Turning,   |

|               |  |                            |                                   |   |
|---------------|--|----------------------------|-----------------------------------|---|
|               | Square Bar                               |                            | cold rolling, Cast                | 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:**