

**This page is mainly introduced the T911 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of T911, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.**

## Datasheet for Steel Grades High Alloy T911

| T911 Standard Number: |          |               |               |              |
|-----------------------|----------|---------------|---------------|--------------|
| Area                  | Standard | Standard Code | Standard Year | Descriptions |
|                       |          |               |               |              |

| T911 Chemical composition (mass fraction) (wt.%) |         |         |             |
|--|---------|---------|-------------|
| Chemical   | Min.(%) | Max.(%) | Similar (%) |
|  |         |         |             |

| T911 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      | -                        |

| T911 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      | -                        |

| T911 Heat Treatment Regime |           |           |             |       |
|----------------------------|-----------|-----------|-------------|-------|
| Annealing                  | Quenching | Tempering | Normalizing | Q & T |
| √                          | √         | √         | √           | √     |

| T911 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          | Φ8-1200mm*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 High Alloy the specifications follows:**