

This page is mainly introduced the AISI TS8137 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of AISI TS8137, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Carbon Steel AISI TS8137

| AISI TS8137 Standard Number: |          |               |               |              |
|------------------------------|----------|---------------|---------------|--------------|
| Area                         | Standard | Standard Code | Standard Year | Descriptions |
|                              |          |               |               |              |

| AISI TS8137 Chemical composition (mass fraction) (wt.%) |         |         |             |
|---|---------|---------|-------------|
| Chemical  | Min.(%) | Max.(%) | Similar (%) |
|   |         |         |             |

| AISI TS8137 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      | -                        |

| AISI TS8137 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      | -                        |

### AISI TS8137 Heat Treatment Regime

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

### AISI TS8137 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 Carbon Steel the specifications follows:**