

**This page is mainly introduced the Ck25 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of Ck25, 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 Ck25

| Ck25 Standard Number: |          |               |               |              |
|-----------------------|----------|---------------|---------------|--------------|
| Area                  | Standard | Standard Code | Standard Year | Descriptions |
|                       |          |               |               |              |

| Ck25 Chemical composition(mass fraction)(wt.%) |         |         |             |
|--|---------|---------|-------------|
| Chemical                                       | Min.(%) | Max.(%) | Similar (%) |
|  |         |         |             |

| Ck25 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      | -                        |

| Ck25 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      | -                        |

### Ck25 Heat Treatment Regime

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

### Ck25 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:**