

**This page is mainly introduced the ICI 8620 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of ICI 8620, 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 ICI 8620

| ICI 8620 Standard Number: |          |               |               |              |
|---------------------------|----------|---------------|---------------|--------------|
| Area                      | Standard | Standard Code | Standard Year | Descriptions |
|                           |          |               |               |              |

| ICI 8620 Chemical composition (mass fraction) (wt.%) |         |         |             |
|--|---------|---------|-------------|
| Chemical   | Min.(%) | Max.(%) | Similar (%) |
|  |         |         |             |

| ICI 8620 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      | -                        |

| ICI 8620 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      | -                        |

### ICI 8620 Heat Treatment Regime

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

### ICI 8620 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:**