

This page is mainly introduced the 2350 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 2350, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel 2350

| 2350 Standard Number: |                 |                                 |
|-----------------------|-----------------|---------------------------------|
| ITEM                  | Standard Number | Descriptions                    |
| 1                     | SS 142350       | Stainless steel - SS steel 2350 |

| 2350 Chemical composition(mass fraction)(wt.%) |    |         |    |    |    |         |    |    |       |
|--|----|---------|----|----|----|---------|----|----|-------|
| Chemical                                       |    | Min.(%) |    |    |    | Max.(%) |    |    |       |
| C  |    |         |    |    |    | 0.08    |    |    |       |
| Si   |    |         |    |    |    | 1.00    |    |    |       |
| Mn   |    |         |    |    |    | 2.00    |    |    |       |
| P  |    |         |    |    |    | 0.045   |    |    |       |
| S  |    |         |    |    |    | 0.030   |    |    |       |
| Cr   |    | 16.50   |    |    |    | 18.50   |    |    |       |
| Ni   |    | 10.50   |    |    |    | 14.00   |    |    |       |
| Mo   |    | 2.00    |    |    |    | 2.50    |    |    |       |
| Ti   |    | 5×(C+N) |    |    |    | 0.80    |    |    |       |
| C  | Si | Mn      | P  | S  | Cr | Ni      | Mo | V  | Ta    |
| W  | N  | Cu      | Co | Pb | B  | Nb      | Al | Ti | Other |
|  |    |         |    |    |    |         |    |    |       |

### Stainless steel - SS steel 2350

| 2350 Physical Properties |         |                          |
|--------------------------|---------|--------------------------|
| Tensile strength         | 115-234 | $\sigma_b$ /MPa          |
| Yield Strength           | 23      | $\sigma_{0.2} \geq$ /MPa |
| Elongation               | 65      | 65 $\geq$ (%)            |

|        |         |                 |
|--------|---------|-----------------|
| $\psi$ | -       | $\psi \geq$ (%) |
| Akv    | -       | Akv $\geq$ /J   |
| HBS    | 123-321 | -               |
| HRC    | 30      | -               |

### 2350 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      | -                        |

### 2350 Heat Treatment Regime

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

### 2350 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          | $\Phi$ 8-1200mm*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 Specialsteel the specifications follows:**