

This page is mainly introduced the 2352 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 2352, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel 2352

### 2352 Standard Number:

| ITEM | Standard Number | Descriptions                    |
|------|-----------------|---------------------------------|
| 1    | SS 142352       | Stainless steel - SS steel 2352 |

### 2352 Chemical composition (mass fraction) (wt.%)

| Chemical |    | Min.(%) |    |    |    |    | Max.(%) |    |       |  |
|----------|----|---------|----|----|----|----|---------|----|-------|--|
| C        |    |         |    |    |    |    | 0.03    |    |       |  |
| Si       |    |         |    |    |    |    | 1.00    |    |       |  |
| Mn       |    |         |    |    |    |    | 2.00    |    |       |  |
| P        |    |         |    |    |    |    | 0.045   |    |       |  |
| S        |    |         |    |    |    |    | 0.030   |    |       |  |
| Cr       |    | 17.00   |    |    |    |    | 19.00   |    |       |  |
| Ni       |    | 9.00    |    |    |    |    | 12.00   |    |       |  |
| Mo       |    |         |    |    |    |    |         |    |       |  |
| C        | Si | Mn      | P  | S  | Cr | Ni | Mo      | V  | Ta    |  |
| W        | N  | Cu      | Co | Pb | B  | Nb | Al      | Ti | Other |  |
|          |    |         |    |    |    |    |         |    |       |  |

### Stainless steel - SS steel 2352

### 2352 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      | -            |

| 2352 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      | -                        |

| 2352 Heat Treatment Regime |           |           |             |       |
|----------------------------|-----------|-----------|-------------|-------|
| Annealing                  | Quenching | Tempering | Normalizing | Q & T |
| √                          | √         | √         | √           | √     |

| 2352 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:**