

This page is mainly introduced the SUS 303 Se Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SUS 303 Se, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel SUS 303 Se

| SUS 303 Se Standard Number: |                 |                                    |
|-----------------------------|-----------------|------------------------------------|
| ITEM                        | Standard Number | Descriptions                       |
| 1                           | G 4318 (2007)   | Cold finished stainless steel bars |

| SUS 303 Se Chemical composition(mass fraction)(wt.%) |    |         |    |    |    |         |    |    |       |
|--|----|---------|----|----|----|---------|----|----|-------|
| Chemical   |    | Min.(%) |    |    |    | Max.(%) |    |    |       |
| C  |    |         |    |    |    | 0.15    |    |    |       |
| Si   |    |         |    |    |    | 1.00    |    |    |       |
| Mn   |    |         |    |    |    | 2.00    |    |    |       |
| P  |    |         |    |    |    | 0.20    |    |    |       |
| S  |    |         |    |    |    | 0.06    |    |    |       |
| Cr   |    | 17.00   |    |    |    | 19.00   |    |    |       |
| Ni   |    | 8.00    |    |    |    | 10.00   |    |    |       |
| Mo   |    |         |    |    |    |         |    |    |       |
| N  |    |         |    |    |    |         |    |    |       |
| Se   |    |         |    |    |    | 0.15    |    |    |       |
| C  | Si | Mn      | P  | S  | Cr | Ni      | Mo | V  | Ta    |
| W  | N  | Cu      | Co | Pb | B  | Nb      | Al | Ti | Other |
|  |    |         |    |    |    |         |    |    |       |

Cold finished stainless steel bars

| SUS 303 Se 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      | -                        |

| SUS 303 Se 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      | -                        |

| SUS 303 Se Heat Treatment Regime |           |           |             |       |
|----------------------------------|-----------|-----------|-------------|-------|
| Annealing                        | Quenching | Tempering | Normalizing | Q & T |
| √                                | √         | √         | √           | √     |

| SUS 303 Se 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, | Φ8-1200mm*L       | Forging, hot rolling and              | Black, Rough Turning,   |

|               |  |                            |                                   |   |
|---------------|--|----------------------------|-----------------------------------|---|
|               | Square Bar                               |                            | cold rolling, Cast                | 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:**