

This page is mainly introduced the **SUS 304 J3 Datasheet**, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of **SUS 304 J3**, 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 304 J3

### SUS 304 J3 Standard Number:

| ITEM | Standard Number | Descriptions                        |
|------|-----------------|-------------------------------------|
| 1    | G 4317 (2005)   | Hot-formed stainless steel sections |

### SUS 304 J3 Chemical composition(mass fraction)(wt.%)

| Chemical |    | Min.(%) |    | Max.(%) |    |    |    |    |       |
|----------|----|---------|----|---------|----|----|----|----|-------|
| C        |    |         |    | 0.08    |    |    |    |    |       |
| Si       |    |         |    | 1.00    |    |    |    |    |       |
| Mn       |    |         |    | 2.00    |    |    |    |    |       |
| P        |    |         |    | 0.045   |    |    |    |    |       |
| S        |    |         |    | 0.03    |    |    |    |    |       |
| Cr       |    | 17.00   |    | 19.00   |    |    |    |    |       |
| Ni       |    | 8.00    |    | 10.50   |    |    |    |    |       |
| Mo       |    |         |    |         |    |    |    |    |       |
| N        |    |         |    |         |    |    |    |    |       |
| Cu       |    | 1.00    |    | 3.00    |    |    |    |    |       |
| C        | Si | Mn      | P  | S       | Cr | Ni | Mo | V  | Ta    |
| W        | N  | Cu      | Co | Pb      | B  | Nb | Al | Ti | Other |
|          |    |         |    |         |    |    |    |    |       |

Hot-formed stainless steel sections

| SUS 304 J3 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 304 J3 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 304 J3 Heat Treatment Regime |           |           |             |       |
|----------------------------------|-----------|-----------|-------------|-------|
| Annealing                        | Quenching | Tempering | Normalizing | Q & T |
| √                                | √         | √         | √           | √     |

| SUS 304 J3 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:**