

This page is mainly introduced the SUS304LN Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SUS304LN, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Special Steel SUS304LN

### SUS304LN Standard Number:

| ITEM | Standard Number | Descriptions                                       |
|------|-----------------|--|
| 1    | G 4304 (2012)   | Hot-rolled stainless steel plates, sheet and strip |

### SUS304LN Chemical composition (mass fraction) (wt.%)

| Chemical |    | Min.(%) |    |    |    | Max.(%) |    |    |       |
|----------|----|---------|----|----|----|---------|----|----|-------|
| C        |    |         |    |    |    | 0.03    |    |    |       |
| Si       |    |         |    |    |    | 1.00    |    |    |       |
| Mn       |    |         |    |    |    | 2.00    |    |    |       |
| P        |    |         |    |    |    | 0.045   |    |    |       |
| S        |    |         |    |    |    | 0.03    |    |    |       |
| Cr       |    | 18.00   |    |    |    | 20.00   |    |    |       |
| Ni       |    | 9.00    |    |    |    | 13.00   |    |    |       |
| Mo       |    |         |    |    |    |         |    |    |       |
| N        |    |         |    |    |    |         |    |    |       |
| C        | Si | Mn      | P  | S  | Cr | Ni      | Mo | V  | Ta    |
| W        | N  | Cu      | Co | Pb | B  | Nb      | Al | Ti | Other |
|          |    |         |    |    |    |         |    |    |       |

Hot-rolled stainless steel plates, sheet and strip

| SUS304LN 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      | -                        |

| SUS304LN 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      | -                        |

| SUS304LN Heat Treatment Regime |           |           |             |       |
|--------------------------------|-----------|-----------|-------------|-------|
| Annealing                      | Quenching | Tempering | Normalizing | Q & T |
| √                              | √         | √         | √           | √     |

| SUS304LN 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:**