

**This page is mainly introduced the SUS 410L Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of SUS 410L, 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 410L

### SUS 410L Standard Number:

| ITEM | Standard Number | Descriptions                                    |
|------|-----------------|---|
| 1    | G 4322 (2008)   | Stainless steel bars for concrete reinforcement |

### SUS 410L Chemical composition (mass fraction) (wt.%)

| Chemical | Min.(%) |    |    |    |    | Max.(%) |    |    |       |  |
|----------|---------|----|----|----|----|---------|----|----|-------|--|
| C        |         |    |    |    |    | 0.03    |    |    |       |  |
| Si       |         |    |    |    |    | 1.00    |    |    |       |  |
| Mn       |         |    |    |    |    | 1.00    |    |    |       |  |
| P        |         |    |    |    |    | 0.04    |    |    |       |  |
| S        |         |    |    |    |    | 0.03    |    |    |       |  |
| Cr       | 11.00   |    |    |    |    | 13.50   |    |    |       |  |
| Ni       |         |    |    |    |    | 0.60    |    |    |       |  |
| Mo       |         |    |    |    |    |         |    |    |       |  |
| N        |         |    |    |    |    |         |    |    |       |  |
| C        | Si      | Mn | P  | S  | Cr | Ni      | Mo | V  | Ta    |  |
|          |         |    |    |    |    |         |    |    |       |  |
| W        | N       | Cu | Co | Pb | B  | Nb      | Al | Ti | Other |  |
|          |         |    |    |    |    |         |    |    |       |  |

Stainless steel bars for concrete reinforcement

### SUS 410L 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 410L 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 410L Heat Treatment Regime

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

### SUS 410L 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, | $\Phi 8$ -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:**