

This page is mainly introduced the 0Cr19Ni13Mo3 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 0Cr19Ni13Mo3, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Specialsteel 0Cr19Ni13Mo3

0Cr19Ni13Mo3 Standard Number:

| ITEM | Standard Number | Descriptions |
|------|-------------------|--|
| 1 | GB 13296 (2007) | Seamless stainless steel tubes for boiler and heat exchanger |
| 2 | GB/T 1220 (1992) | Stainless steel bars |
| 3 | GB/T 14975 (2002) | Stainless steel seamless tubes for structures |
| 4 | GB/T 14976 (2002) | Stainless steel seamless tubes for fluid transport |
| 5 | GB/T 3280 (2007) | Cold rolled stainless steel sheets and plates |
| 6 | GB/T 4237 (1992) | Hot rolled stainless steel sheets and plates |
| 7 | GB/T 4239 (1991) | Cold rolled stainless steel and heat resisting steel strips |
| 8 | GB/T 4356 (2002) | Stainless steel wire rods |

0Cr19Ni13Mo3 Chemical composition(mass fraction)(wt.%)

| Chemical | | Min.(%) | | | | | Max.(%) | | | |
|----------|----|---------|----|----|----|----|---------|----|-------|--|
| C | | | | | | | 0.08 | | | |
| Si | | | | | | | 1.00 | | | |
| Mn | | | | | | | 2.00 | | | |
| P | | | | | | | 0.035 | | | |
| S | | | | | | | 0.030 | | | |
| Ni | | 11.00 | | | | | 15.00 | | | |
| Cr | | 18.00 | | | | | 20.00 | | | |
| Mo | | 3.00 | | | | | 4.00 | | | |
| C | Si | Mn | P | S | Cr | Ni | Mo | V | Ta | |
| W | N | Cu | Co | Pb | B | Nb | Al | Ti | Other | |
| | | | | | | | | | | |

0Cr19Ni13Mo3

0Cr19Ni13Mo3 Physical Properties

| | | |
|------------------|---------|--------------------------|
| Tensile strength | 115-234 | σ_b /MPa |
| Yield Strength | 23 | $\sigma_{0.2} \geq$ /MPa |
| Elongation | 65 | $\delta_5 \geq$ (%) |
| ψ | - | $\psi \geq$ (%) |
| Akv | - | Akv \geq /J |
| HBS | 123-321 | - |
| HRC | 30 | - |

0Cr19Ni13Mo3 Mechanical Properties

| | | |
|------------------|---------|--------------------------|
| Tensile strength | 231-231 | σ_b /MPa |
| Yield Strength | 154 | $\sigma_{0.2} \geq$ /MPa |
| Elongation | 56 | $\delta_5 \geq$ (%) |
| ψ | - | $\psi \geq$ (%) |
| Akv | - | Akv \geq /J |
| HBS | 235-268 | - |
| HRC | 30 | - |

0Cr19Ni13Mo3 Heat Treatment Regime

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

0Cr19Ni13Mo3 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 | Φ8-1200mm*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: