

This page is mainly introduced the 10S20 Datasheet, including chemical information,mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 10S20, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Structure Steel 10S20

| | 10S20 Standard Number: | | | | |
|-----------------------------------|------------------------|--|--|--|--|
| ITEM Standard Number Descriptions | | | | | |

| 10S20 Chemical composition(mass fraction)(wt.%) | | | | | | | | | |
|---|-----|-----------|------|----|----|----|----|----|-------|
| Chemical Min.(%) Max.(%) | | | | | | | | | |
| С | Si | Mn | Р | S | Cr | Ni | Мо | V | Та |
| 0.07-0.13 | 0.4 | 0.70-1.10 | 0.06 | | | | | | |
| W | N | Cu | Co | Pb | В | Nb | Al | Ti | Other |
| | | | | | | | | | |

10S20

| 10S20 Physical Properties | | | | | |
|---------------------------|---------|-------------|--|--|--|
| Tensile strength | 115-234 | σb/MPa | | | |
| Yield Strength | 23 | σ 0.2 ≥/MPa | | | |
| Elongation | 65 | δ5≥ (%) | | | |
| Ψ | - | ψ≥ (%) | | | |
| Akv | - | Akv≥/J | | | |
| HBS | 123-321 | - | | | |
| HRC | 30 | - | | | |

| 105 | es | | |
|------------------|---------|-----------------------|--|
| Tensile strength | 231-231 | σb/MPa | |
| Yield Strength | 154 | σ 0.2 ≥/MPa δ5≥(%) | |
| Elongation | 56 | | |



Steel Grades 10S20 Chemical information, Mechanical properties

Physical properties, Mechanical properties, Heat treatment, and Micro structure

| Ψ | - | ψ≥(%) |
|-----|---------|--------|
| Akv | - | Akv≥/J |
| HBS | 235-268 | - |
| HRC | 30 | - |

| 10S20 Heat Treatment Regime | | | | | | | | |
|-----------------------------|---|---|---|---|--|--|--|--|
| Annealing | Annealing Quenching Tempering Normalizing Q & T | | | | | | | |
| V | √ | √ | V | √ | | | | |

| 10S20 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 | Ф8-1200mm*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 Structure Steel the specifications follows: