

This page is mainly introduced the 4X2B2MΦC Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of 4X2B2MΦC, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Steel Grades Tool Steel And Hard Alloy 4X2B2MΦC

4X2B2MΦC Standard Number:

| ITEM | Standard Number | Descriptions |
|------|-----------------|--------------|
|------|-----------------|--------------|

4X2B2MΦC Chemical composition(mass fraction)(wt.%)

| Chemical | | | Min.(%) | | | | Max.(%) | | |
|-----------|-----------|-----------|---------|--------|-----------|-------|-----------|-----------|-------|
| C | Si | Mn | P | S | Cr | Ni | Mo | V | Ta |
| 0.42-0.50 | 0.30-0.60 | 0.30-0.60 | ≤0.030 | ≤0.030 | 2.00-3.50 | ≤0.35 | 0.80-1.10 | 0.60-0.90 | |
| W | N | Cu | Co | Pb | B | Nb | Al | Ti | Other |
| 1.80-2.40 | | ≤0.30 | | | | | | ≤0.03 | |

4X2B2MΦC Physical Properties

| | | |
|------------------|---------|------------------------|
| Tensile strength | 115-234 | σ _b /MPa |
| Yield Strength | 23 | σ _{0.2} ≥/MPa |
| Elongation | 65 | δ ₅ ≥ (%) |
| ψ | - | ψ ≥ (%) |
| A _{kV} | - | A _{kV} ≥/J |
| HBS | 123-321 | - |
| HRC | 30 | - |

4X2B2MΦC Mechanical Properties

| | | |
|------------------|---------|------------------------|
| Tensile strength | 231-231 | σ _b /MPa |
| Yield Strength | 154 | σ _{0.2} ≥/MPa |

| | | |
|------------|---------|----------------------|
| Elongation | 56 | $\delta 5 \geq (\%)$ |
| ψ | - | $\psi \geq (\%)$ |
| Akv | - | $Akv \geq /J$ |
| HBS | 235-268 | - |
| HRC | 30 | - |

4222??C Heat Treatment Regime

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

4222??C 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 Tool Steel And Hard Alloy the specifications follows: