

This page is mainly introduced the X55CrMo14 Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of X55CrMo14, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

Datasheet for Metals X55CrMo14

| X55CrMo14 Standard Number: | | | | |
|----------------------------|----------|---------------|---------------|--|
| Area | Standard | Standard Code | Standard Year | Descriptions |
| England | B.S. | BS EN 10088-1 | 0 | Stainless steels. List of stainless steels |

| X55CrMo14 Chemical composition (mass fraction) (wt.%) | | | |
|---|---------|---------|-------------|
| Chemical | Min.(%) | Max.(%) | Similar (%) |
| V | - | 0.1500 | - |
| Si | - | 1.0000 | - |
| S | - | 0.0300 | - |
| P | - | 0.0400 | - |
| Mo | 0.5000 | 0.8000 | - |
| Mn | - | 1.0000 | - |
| Cr | 13.0000 | 15.0000 | - |
| C | 0.4800 | 0.6000 | - |
| V | - | 0.1500 | - |
| Si | - | 1.0000 | - |
| S | - | 0.0150 | - |
| P | - | 0.0400 | - |
| Mo | 0.5000 | 0.8000 | - |
| Mn | - | 1.0000 | - |
| Cr | 13.0000 | 15.0000 | - |
| C | 0.4800 | 0.6000 | - |
| V | - | 0.1500 | - |
| Si | - | 1.0000 | - |
| S | - | 0.0150 | - |
| P | - | 0.0400 | - |
| Mo | 0.5000 | 0.8000 | - |

| | | | |
|----|---------|---------|---|
| Mn | - | 1.0000 | - |
| Cr | 13.0000 | 15.0000 | - |
| C | 0.4800 | 0.6000 | - |

X55CrMo14 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 | - |

X55CrMo14 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 | - |

X55CrMo14 Heat Treatment Regime

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

X55CrMo14 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 | Φ 8-1200mm*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 Metals the specifications follows: