

This page is mainly introduced the EN X6CrNiNb2010KE Datasheet, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of EN X6CrNiNb2010KE, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Special Steel EN X6CrNiNb2010KE

### EN X6CrNiNb2010KE Standard Number:

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

### EN X6CrNiNb2010KE Chemical composition (mass fraction) (wt.%)

| Chemical |      |           | Min.(%) |       |           |                 | Max.(%)  |    |       |  |
|----------|------|-----------|---------|-------|-----------|-----------------|----------|----|-------|--|
| C        | Si   | Mn        | P       | S     | Cr        | Ni              | Mo       | V  | Ta    |  |
| 0.06     | 0.55 | 1.10-1.90 | 0.025   | 0.015 | 18.2-20.8 | 9.20-10.8       | Max 0.47 |    |       |  |
| W        | N    | Cu        | Co      | Pb    | B         | Nb              | Al       | Ti | Other |  |
|          |      | 0.47      |         |       |           | 10XCMax<br>0.95 |          |    |       |  |

### Euronorm Stainless Steel, EN X6CrNiNb2010KE

### EN X6CrNiNb2010KE 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      | -                        |

### EN X6CrNiNb2010KE 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      | -                        |

### EN X6CrNiNb2010KE Heat Treatment Regime

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

### EN X6CrNiNb2010KE 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 Special Steel the specifications follows:**