| **Material designation:** | **SN 400 B** [Add to Comparison](javascript:__doPostBack('renewalForm$Material_KTS$lbtn_addtocomp_KTS','')) |
| --- | --- |
| Standard: | CNS |
| Country: | China |
| Steel Group: | Structural and constructional steels |
| Subgroup: | G3262 Rolled steels for building structure |

[Show useful hint](http://www.keytometals.com/Search.aspx?id=ChemCrt&LN=EN&id1=447844&id2=2&SessionID=1186912714132013431143IY6U707MNT8N23N6IC)

**Cross-Reference Table**  
  
Cross-reference tables are now upgraded with the categorization of equivalents and similarity, and available at a separate window.  
  
[Click here to view cross-reference table.](http://www.keytometals.com/Search.aspx?LN=EN&id=crossRef&id1=447844&id2=2&SessionID=1186912714132013431143IY6U707MNT8N23N6IC)

**Chemical Composition**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Chemical Composition (%)**   |  |  |  |  | | --- | --- | --- | --- | | **Criteria** | **Min.** | **Max.** | **Approx** | | C (\*) |  | 0.2000 |  | | Mn | 0.6000 | 1.4000 |  | | P |  | 0.0300 |  | | S |  | 0.0150 |  | | Si |  | 0.3500 |  | | Other (\*) |  |  |  | | CEV (\*) |  | 0.3600 |  | | |  |  | | --- | --- | | **Criteria** | **Comment** | | C | For 6 mm or over, up to 50 mm incl. in thickness. For t > 50 mm, up to 100 mm including in thickness C <= 0.22% | | Other | The alloy elements other than those in the table may be added, if necessary. | | CEV | For thicknesses t<=40 mm CEV=0.36; 40>t<=100 mm CEV=0.36; Ceq.=C + Mn/6 + Si/24 + Ni/40 + Cr/5 + Mo/4 + V/14 | |

| **Material designation:** | **SN 400 B** [Add to Comparison](javascript:__doPostBack('renewalForm$Material_KTS$lbtn_addtocomp_KTS','')) |
| --- | --- |
| Standard: | CNS |
| Country: | China |
| Steel Group: | Structural and constructional steels |
| Subgroup: | G3262 Rolled steels for building structure |

**Mechanical Properties**

|  |  |  |
| --- | --- | --- |
| Measurement Units: Metric (SI)Anglo-Saxon | | |
| |  | | --- | |  |  |  |  |  |  | | --- | --- | --- | --- | |  | Min. | Max. | Approx | | **6 < t <= 12 mm** | | | | | Yield stress Rp0,2 (MPa) | 235 | - | - | | Tensile stress, Rm (MPa) | 400 | - | - | | Elongation, A (%) | - | - | - | | Impact, Kv/Ku (J) | - | - | - | | **12 < t <= 40 mm** | | | | | Yield stress Rp0,2 (MPa) | 235 | 335 | - | | Tensile stress, Rm (MPa) | 400 | - | - | | Elongation, A (%) | - | - | - | | Impact, Kv/Ku (J) | - | - | - | | **40 < t <= 100 mm** | | | | | Yield stress Rp0,2 (MPa) | 215 | 335 | - | | Tensile stress, Rm (MPa) | 400 | - | - | | Elongation, A (%) | - | - | - | | Impact, Kv/Ku (J) | - | - | - | | | |
| **Material designation:** [**SN 400 B**](javascript:__doPostBack('renewalForm$lb_mat1','')) | | **Material designation:** [**SN 400 C**](javascript:__doPostBack('renewalForm$lb_mat3','')) |



**Basic Information**

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|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  | | --- | | **Standard:** | | CNS | | |  | | --- | | **Standard:** | | CNS | |
| |  | | --- | | **Country:** | | China | | |  | | --- | | **Country:** | | China | |
| |  | | --- | | **Steel Group:** | | Structural and constructional steels | | |  | | --- | | **Steel Group:** | | Structural and constructional steels | |
| |  | | --- | | **Subgroup:** | |  | | |  | | --- | | **Subgroup:** | |  | |
| |  | | --- | | **Subgroup:** | | G3262 Rolled steels for building structure | | |  | | --- | | **Subgroup:** | | G3262 Rolled steels for building structure | |
| |  | | --- | | **Comment** | |  | | |  | | --- | | **Comment** | |  | |



**Chemical Composition (%)**

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Criteria** | **Min.** | | **Max.** | **Approx** | | C (\*) |  | | 0.2 |  | | Mn | 0.6 | | 1.4 |  | | P |  | | 0.03 |  | | S |  | | 0.015 |  | | Si |  | | 0.35 |  | | Other (\*) |  | |  |  | | CEV (\*) |  | | 0.36 |  | | **Criteria** | | **Comment** | | | | C | | For 6 mm or over, up to 50 mm incl. in thickness. For t > 50 mm, up to 100 mm including in thickness C <= 0.22% | | | | Other | | The alloy elements other than those in the table may be added, if necessary. | | | | CEV | | For thicknesses t<=40 mm CEV=0.36; 40>t<=100 mm CEV=0.36; Ceq.=C + Mn/6 + Si/24 + Ni/40 + Cr/5 + Mo/4 + V/14 | | | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Criteria** | **Min.** | | **Max.** | **Approx** | | C (\*) |  | | 0.2 |  | | Mn | 0.6 | | 1.4 |  | | P |  | | 0.02 |  | | S |  | | 0.008 |  | | Si |  | | 0.35 |  | | Other (\*) |  | |  |  | | CEV (\*) |  | | 0.36 |  | | **Criteria** | | **Comment** | | | | C | | For 16 mm or over, up to 50 mm incl. in thickness C=max0.20%. For thicknesses 50 < t <= 100 mm C max=0.22%; | | | | Other | | The alloy elements other than those in the table may be added, if necessary. | | | | CEV | | For thicknesses t<=40 mm CEV=0.36; 40>t<=100 mm CEV=0.36; Ceq.=C + Mn/6 + Si/24 + Ni/40 + Cr/5 + Mo/4 + V/14 | | | |



**Mechanical Properties**

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | |  | Min. | Max. | Approx | | **6 < t <= 12 mm** | | | | | Yield stress Rp0,2 (MPa) | 235 | - | - | | Tensile stress, Rm (MPa) | 400 | - | - | | Elongation, A (%) | - | - | - | | Impact, Kv/Ku (J) | - | - | - | | **12 < t <= 40 mm** | | | | | Yield stress Rp0,2 (MPa) | 235 | 335 | - | | Tensile stress, Rm (MPa) | 400 | - | - | | Elongation, A (%) | - | - | - | | Impact, Kv/Ku (J) | - | - | - | | **40 < t <= 100 mm** | | | | | Yield stress Rp0,2 (MPa) | 215 | 335 | - | | Tensile stress, Rm (MPa) | 400 | - | - | | Elongation, A (%) | - | - | - | | Impact, Kv/Ku (J) | - | - | - | | |  |  |  |  | | --- | --- | --- | --- | |  | Min. | Max. | Approx | | **16 < t <= 40 mm** | | | | | Yield stress Rp0,2 (MPa) | 235 | 335 | - | | Tensile stress, Rm (MPa) | 510 | - | - | | Elongation, A (%) | - | - | - | | Impact, Kv/Ku (J) | - | - | - | | **40 < t <= 100 mm** | | | | | Yield stress Rp0,2 (MPa) | 215 | 235 | - | | Tensile stress, Rm (MPa) | 510 | - | - | | Elongation, A (%) | - | - | - | | Impact, Kv/Ku (J) | - | - |  | |