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It is a common practice to use the yield strength of the material as a design stress. This is because the yield strength is the stress at which the material begins to deform permanently. The ultimate tensile strength is the maximum stress that the material can withstand before breaking. However, the yield strength is a more conservative value and is used for design purposes.

### Section 13. Yield Strength of Steel Bars, Alloy Steels, Free Cutting Steels, Stainless Steels

The yield strength of steel bars, alloy steels, free cutting steels, and stainless steels is determined by the chemical composition and the manufacturing process. The yield strength is a measure of the material's resistance to plastic deformation.

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### Section 14. Yield Strength of Steel Bars, Alloy Steels, Free Cutting Steels, Stainless Steels

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