## C45 Steel Plates

C45 Steel Plates are suitable for precision-machined parts and engineering components requiring higher strength than standard structural steels. They are commonly used in manufacturing industries where reliability, durability and machining performance are critical.

# Technical Specifications

## Mechanical Properties

| Property | C45 |
|---|---|
| Typical Tensile Strength (MPa) | 570–700 |
| Typical Yield Strength (MPa) | Approx. 340 |
| Typical Elongation (%) | 16 |

## Chemical Composition

| Element | C45 |
|---|---|
| Carbon (%) | 0.42–0.50 |
| Manganese (%) | 0.50–0.80 |
| Silicon (%) | 0.10–0.40 |
| Phosphorus (Max %) | 0.045 |
| Sulphur (Max %) | 0.045 |

Note: Verify all values against the latest applicable material specifications and Mill Test Certificates before publication.

# Product Information

| Specification | Details |
|---|---|
| Grade Available | C45 |
| Source | Leading Indian Steel Manufacturers |
| Documentation | Mill Test Certificate (MTC) |
| Material Traceability | Available |
| Processing Services | Available on request |