



# C45K Carbon Steel – Keysteel

**Supplier:** Troy Steel (Pty) Ltd

[www.troysteel.co.za](http://www.troysteel.co.za)

## Material Description

C45K is a medium carbon steel supplied as precision keysteel, offering good machinability, strength, and dimensional accuracy for keyed applications.

## Typical Chemical Composition (% by weight)

Carbon 0.42–0.50

Manganese 0.50–0.80

Silicon  $\leq$  0.40

## Typical Mechanical Properties

Tensile Strength: ~600–800 MPa

Hardness: ~170–240 HB

## Typical Applications

Keys, keyways, drive keys, couplings, and transmission assemblies

Disclaimer: Guide values only; properties depend on section size and condition of supply. Refer to the relevant standard and mill test certificate for compliance.