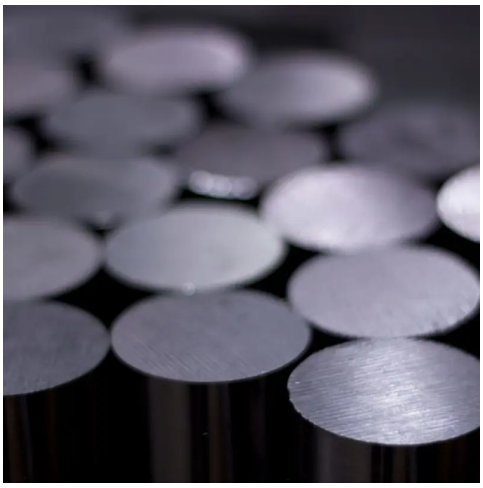
# EN24 Alloy Steel - 817M40



## EN24 / 817M40 Alloy Steel Suppliers & Stockholders

*Dynamic Metals is a specialist supplier and stockholder of EN24 alloy steel (817M40, W.Nr 1.6565), supplying aerospace, motorsport and engineering industries with certified bar, sheet and plate since 1997. No minimum order quantities*

EN24 (817M40, W.Nr 1.6565) is a nickel chromium molybdenum alloy steel that conforms to the BS 970 standards. It is the British Standard equivalent to the 4340 alloy steel, as it has a very similar composition and mechanical properties, thus replacing 4340 in several applications.

The strength of EN24 is acquired by quench and temper heat treatment. With the T temper, it has a tensile strength of 850 MPa and proof stress of 680 MPa and is applicable in applications requiring high strength steels. Higher strength temper conditions can be achieved by increased heat treatment, giving up to a tensile strength of 1550 MPa in structural applications. The nickel content (1.30-1.70%) increases the toughness and impact resistance, chromium (1.00-1.40%) hardenability and molybdenum (0.20-0.35%) increases strength and temper brittleness resistance.

Due to its very good hardenability, EN24 retains the same mechanical properties throughout larger sections, which is an important feature in shafts, gears and other structural parts. Due to the properties of high strength, toughness and fatigue resistance, EN24 is one of the most widely used alloy steels in UK engineering.

EN24 is offered in bar, sheet and plate form by Dynamic Metals in various sizes suitable for prototyping or production.

### Related Products

**15Cdv6 Bar Sheet Tube**

**300M**

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**4130 Sheet And Plate**

**4340**

**52100**

**S99**

**EN24**

**Hy Tuf**

**S156**

**T45**

**M50 Steel Bar**

**4330 Alloy Steel**

**BS S106**

# Technical specification

*Related Specifications*

**817M40**

*Need more information?* ***Get in touch***

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