



# COLUMBIA METALS LTD

*The First Name in Non-Ferrous & Stainless Stockholding*

## COLUMBIA S80

**High Chromium-Nickel Corrosion Resisting Steel  
(Conforming to BS S80D - Bright bar hardened and tempered)**

**Round Rods Available Ex-Stock  
In a comprehensive range of sizes from 1/8" to 6" diameter**

**OUTSTANDING PRODUCT QUALITY**

**FAST EX-STOCK DELIVERY**

**SMALL QUANTITY ORDERS WELCOME**

**Nominal Composition (wt %):** 16.5% Cr, 2.5% Ni, 0.16% C, Remainder Fe

**Mechanical Properties:** (Specification minima for all sizes) UTS: 880 N/mm<sup>2</sup>, 0.2% PS: 690 N/mm<sup>2</sup>, Elongation: 12%, Hardness: 255-321 HB.

**S80** is one of the most corrosion resistant martensitic stainless steels, displaying excellent strength and toughness, resistance to stress corrosion and a high resistance to oxidation up to 800°C. S80 also offers excellent corrosion resistance in various media from mild acids and alkalis to food acids, basic salts and atmosphere.

**S80** is weldable and offers better machining characteristics than other chromium-nickel grades with a machinability rating of ~45%. The alloy is extensively used for aircraft components and fittings but is also used for screws and bolts, valve parts and chemical equipment in defence, marine and other high technology industries.

### **For immediate quotation please contact your nearest branch:**

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