

# Metal Rods

## Features

- Material Grade: 303S31 (also known as 1.4305 or AISI 303) stainless steel.
- Contains additional sulfur to provide good free-machining properties, making it easier to cut and shape than other 300 series stainless steels.
- Offers high corrosion resistance in general atmospheric conditions and is suitable for food processing and industrial environments. Its resistance to acids is limited compared to grade 304 due to the sulfur content.
- Non-magnetic in the annealed condition.
- Heat Resistance: Good oxidation resistance in continuous service up to 870°C and intermittent service up to 760°C.

## RS PRO 303 Stainless Steel Rod

**L: 1500MM X D: 8MM**

RS Stock No: 0764222



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

# Metal Rods

## Product Description

### ***RS PRO 303 Stainless Steel Rod***

*The RS PRO 303 Stainless Steel Rod is an austenitic, non-magnetic round bar prized for its superior machinability due to added sulfur content, which makes it easy to cut and work with. It offers good corrosion resistance in mild environments and is designed for applications requiring extensive machining.*

### ***Key Features***

- *Contains additional sulfur for enhanced machinability.*
- *Non-magnetic and low electrical conductivity.*
- *Good resistance to corrosion and heat.*
- *Meets British Standards BS970 Part 1 (1983) specifications.*
- *Form: Rod / Round Bar.*

### ***Applications***

- *Machine components: Gears, shafts, and valve bodies.*
- *Fasteners: Production of bolts, nuts, and screws.*
- *Structural elements: Used in masonry structures and barrier walls.*
- *Fittings: Aircraft fittings and general hardware.*
- *Processing equipment: Components for food processing and dairy machinery.*
- *Electrical components: Electrical switchgear parts.*

## General Specifications

<b>Material</b>	Stainless Steel
<b>Form</b>	Rod
<b>Grade</b>	303
<b>Diameter</b>	8MM
<b>Length</b>	1500MM

## Material Specification

Density	8g/cm <sup>3</sup>
Hardness Brinell	262 HB
Thermal Conductivity	16.3W/mK
Thermal Expansion	17.2 x 10 <sup>-6</sup> /K
Modulus of Elasticity	193 GPa

## Similar Products

RS Code	Form	Diameter	Length
0764219	Rod	5MM	1500MM
0764220	Rod	6MM	1500MM
0764223	Rod	10MM	1500MM
0764224	Rod	12MM	1500MM
0764225	Rod	15MM	1500MM
0764226	Rod	20MM	1500MM
6614703	Rod	25MM	1500MM
6614712	Rod	30MM	1500MM
6614715	Rod	40MM	1500MM
682882	Rod	25MM	1000MM