



## TAURUS ERCUSI SILICON BRONZE TIG RODS

### Description

TAURUS TIG SILICON BRONZE is pure copper filler rod deoxidised with 3% silicon for welding a wider range of copper alloys including overlaying of steels and cast irons. TAURUS TIG SILICON BRONZE should be shielded with pure argon but pure helium provides deeper penetration, higher travel speeds and allows reduced preheating.

### APPLICATIONS

Applications include plate for chemical plant and moulds, stills and calorifiers, rods and wires for electrical components and tubes for heat exchangers.

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## **MATERIALS TO BE WELDED**

General purpose including phosphorous deoxidised copper, silicon bronze, nickel silver and some brasses.

## **WELDING POSITIONS**

- Downhand
- Horizontal flat
- Horizontal vertical
- Vertical up
- Overhead

## **CLASSIFICATIONS**

- AWS A5.7 ERCuSi-A
- DIN 1733 SG-CuSi3 (2, 1461)
- BS 2901Pt3 C9
- EN 24373 CU6560 CuSiMn1

## **COMPOSITION**

	<b>%</b>
Silicon	2.8 – 4.0
Iron	0.3 Max
Manganese	0.75 – 1.5
Phosphorous	0.02 Max

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Zinc	0.02 Max
Tin	0.2 Max
Lead	0.02 Max
Aluminium	0.01 Max
Other totals	0.4 Max
Copper	Balance

**MECHANICAL PROPERTIES**

Tensile strength	330 – 370 MPa
Elongation on 5d	40 % Max
Hardness	80 – 90 HB

**AS WELDED**

**Product Category**

1. Bronze
2. Consumables
3. Tig Rods

**Date Created**

03 Nov 2025