

# Welding Electrode Rod

Welding electrode rods provide excellent arc stability and are suitable for all-position welding. The slag is fluid and easy to remove, resulting in smooth welds.



## ADDITIONAL IMAGES



## Overview

**WELDING ELECTRODE**

**CENMET BRAND**      CORRESPONDENCE TO AWS E6013  
JIS D4313

**ELECTRODE FOR WELDING MILD STEEL**

**Description:**  
This low carbon steel electrode with flux coating, that exhibits excellent welding performance, with no spatter and no slag loss. The slag is fluid and easy to remove once hardened. Engineered for versatility, they support all-position and vertical-down welding, making them ideal for steel sheets, light structures, and vehicle fabrication.

**Application:**  
For welding structure of mild steel, light structures, vehicles and etc.

	C	Mn	P	S
MINIMUM	0.05	0.20	0.010	0.005
MAXIMUM	0.08	0.30	0.015	0.008

TENSILE STRENGTH	TENSILE STRENGTH		YIELD STRENGTH	ELONGATION	IMPACT	BEND TEST
	MIN	MAX				
MINIMUM	420	510	275	20	100	3T
MAXIMUM	510	600	355	20	100	3T

\*Based on chemical composition and mechanical properties of the electrode metal.  
\*Based on practice of practice code of the buyer's nation.

Comprehensive technical specifications including AWS E6013 compliance and mechanical test results.

## High-Performance Mild Steel Welding Electrodes

These low carbon steel electrodes feature a specialized titania coating designed for superior welding performance. They provide a stable arc with negligible spatter loss and produce a fluid slag that is easy to remove once hardened. Engineered for versatility, they support all-position and vertical-down welding, making them ideal for steel sheets, light structures, and vehicle fabrication.

## Technical Standards

### Classifications & Approvals

ABS • BV • LR • NK • GL

### International Standards

AWS E6013, JIS D4313

## Mechanical Properties

### Typical Mechanical Performance

**450 MPa**

Yield Strength

**510 MPa**

Tensile Strength

**25 %**

Elongation

**80 J**

Charpy V Impact (0°C)

## Chemical Composition

### Weld Metal Chemical Analysis

Element	AWS Standard (%)	Typical Value (%)
Carbon (C)	d 0.20	0.08
Manganese (Mn)	< 1.20	0.49
Silicon (Si)	< 1.00	0.30
Sulphur (S)	N.S.	0.018
Phosphorus (P)	N.S.	0.011

## Physical Characteristics

### Available Sizes

- 2.5mm x 300mm
- 3.2mm x 350mm

## Applications

### Recommended Use Cases

- Steel sheet structures
- Light steel structures
- Vehicle manufacturing
- All-position welding
- Vertical-down welding

## Logistics & Packaging

### Weight and Container Specs

Electrodes are packed in 20kg net cartons. For 2.5mm size, cartons consist of 8 boxes of 2.5kg each. For other sizes, cartons consist of 4 boxes of 5kg each. Palletized or non-palletized shipping is available based on buyer requirements.

Net Weight per Carton

20 kg