

# Eureka Welding Alloys

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## TECHNICAL DATA FOR EUREKA 26 ELECTRODES

**Dated:** March 31, 1995

**Revised:** July 8, 2013

## INTRODUCTION

**Eureka 26 Electrode** is perhaps the smoothest running E6013 all position electrode available anywhere. This product was initially designed for joining intricate tools and fixtures where high tensile strength and zero spatters are a must. Easy slag removal and low smoke make **Eureka 26 Electrodes** a truly premium quality mild steel electrode.

## METALLURGICAL CHARACTERISTICS

**Eureka 26 Electrode** is a low carbon machine steel. Excellent machinability, high yield strength, and ultra fine grain structure are among its metallurgical assets.

## RECOMMENDED APPLICATIONS

**Eureka 26 Electrodes** are used for fabricating close tolerance weldments, jigs, fixtures or other mechanical sections. Excellent for galvanize or zinc coated sheet metal. It is a must for fabricating seamless tubing and thick wall pipe.

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## WELDING PARAMETERS

SIZE	AMPERAGE RANGE
3/32" 2.4mm	70 – 120
1/8" 3.2mm	100 – 140
5/32" 4.0mm	140 – 170
3/16" 4.8mm	170 – 225
1/4" 6.35mm	225 – 300
5/16" 7.94mm	300 – 375
3/8" 9.5mm	350 – 425

## TYPICAL CHEMISTRY

C	Mn	Si
.08	.40	.40

## PHYSICAL AND OR MECHANICAL PROPERTIES

**TENSILE STRENGTH 70,000 psi**

**YIELD STRENGTH 63,000 psi**

**ELONGATION 30%**