

# Eureka Welding Alloys

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## TECHNICAL DATA FOR EUREKA 308 TIG RODS

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**Revised:** July 8, 2013

## INTRODUCTION

**Eureka 308 TIG Rods** are drawn, straightened, cut to length, and then cleaned and packaged to obtain microscopically clean weld deposits. These rods are designed for the most critical applications where weld metal cleanliness is most important.

## METALLURGICAL CHARACTERISTICS

**Eureka 308 TIG Rod** weld deposits are of the non-heat treatable austenitic stainless steel variety. This alloy resists scaling up to 1900 °F. The deposits take high polish which creates an anti-frictional surface and will work harden rapidly up to 240 Brinnell when peened. The high Chromium and Nickel contents are extremely resistance to corrosive environments.

## RECOMMENDED APPLICATIONS

**Eureka 308 TIG Rods** are for welding A.I.S.I. type 308, 309, and 316 stainless steels. They are also excellent for the repair of joining of furnace parts, bearing surfaces, billet hooks, forging tongs, zinc die casting dies, and drawing and forming dies.

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## **RECOMMENDED SHIELDING GASES**

**100% Argon**

## **GAS FLOW RATE**

**20-40 CFH**

## **TYPICAL CHEMISTRY**

C	Mn	Si	Cr	Ni
.02	1.5	.50	24.0	13.0

## **PHYSICAL AND OR MECHANICAL PROPERTIES**

**TENSILE STRENGTH 84,000 psi**

**YIELD STRENGTH 60,000 psi**

**ELONGATION 34%**