

# Eureka Welding Alloys

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## TECHNICAL DATA FOR EUREKA 100 TIG ROD

**Dated:** March 31, 1995

**Revised:** July 8, 2013

## INTRODUCTION

**Eureka 100 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 100 Bare TIG Rod** is a commercially pure Nickel welding alloy. The weld deposits are highly ductile with a tensile strength of approximately 66,000 P.S.I. and a Brinnell hardness of 170.

## RECOMMENDED APPLICATIONS

**Eureka 100 Bare TIG Rod** can be utilized to repair, build up, or join grey, nodular and malleable cast irons. Extremely effective on thin cast iron; such as, engine block walls, pump housings, and gears. Do not use on automotive draw dies as an underlay, see EXP-10.

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## **Recommended Shielding Gases**

**100% Argon**

## **Gas Flow Rate**

**20-40 CFH**

## **Typical Chemistry**

C	Mn	Si	Ni
.01	.20	.10	99

**Tensile Strength 66,000 psi**

**Elongation 40%**