

Eureka Welding Alloys

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TECHNICAL DATA FOR EUREKA 310 TIG RODS

Dated: March 31, 1995

Revised: July 8, 2013

INTRODUCTION

Eureka 310 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 310 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 when peened. The high Chromium and Nickel contents are extremely resistance to corrosive environments.

RECOMMENDED APPLICATIONS

Eureka 310 TIG Rods are for welding A.I.S.I. type 309, 310, 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	26.0	21.0

PHYSICAL AND OR MECHANICAL PROPERTIES

TENSILE STRENGTH 84,000 psi

YIELD STRENGTH 60,000 psi

ELONGATION 34%