

Eureka Welding Alloys

2000 E. Avis Drive

Madison Heights, MI 48071

Phone: 248-588-0001 Fax: 248-585-7711 Toll Free: 800-962-8560

E-mail: info@eurekaweldingalloys.com Website: www.eurekaweldingalloys.com

TECHNICAL DATA FOR EUREKA 17-4 PH TIG RODS

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INTRODUCTION

Eureka 17-4 PH 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 17-4 PH TIG Rods weld deposits are an age hardening stainless steel. This alloy resists scaling at elevated temperatures. The deposits take high polish which creates an anti-frictional surface. It is used in the petrochemical and aerospace industries. Also used as a mold steel in the plastic industry.

RECOMMENDED APPLICATIONS

Eureka 17-4 PH TIG Rods are for welding of ASTM A564, 17-4 PH and 15-5 PH. The deposits have good resistance to stress corrosion cracking, especially in environments containing H₂S.

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RECOMMENDED SHIELDING GASES

100% Argon

GAS FLOW RATE

20-40 CFH

TYPICAL CHEMISTRY

C	Mn	Si	Cr	Ni	Cu	Nb
.03	.50	.40	16.5	4.8	3.5	.20

PHYSICAL AND OR MECHANICAL PROPERTIES

TENSILE STRENGTH 150,000 psi

YIELD STRENGTH 130,000 psi

ELONGATION 10%