

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 2209 TIG RODS

Dated: March 31, 1995

Revised: July 8, 2013

INTRODUCTION

Eureka 2209 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 2209 TIG Rods 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 2209 TIG Rods are for welding of 22% Chromium duplex stainless steels such as UNS S31803 and S32205. The deposits have good resistance to stress corrosion cracking, especially in environments containing H₂S.

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

RECOMMENDED SHIELDING GASES

100% Argon

GAS FLOW RATE

20-40 CFH

TYPICAL CHEMISTRY

C	Mn	Si	Cr	Ni	Mo
.02	1.5	.50	28.5	12.5	2.5

PHYSICAL AND OR MECHANICAL PROPERTIES

TENSILE STRENGTH 84,000 psi

YIELD STRENGTH 58,000 psi

ELONGATION 38%