

Eureka Welding Alloys

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TECHNICAL DATA FOR EUREKA 62 TIG ROD

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INTRODUCTION

Eureka 62 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 62 TIG Rod is a Nickel base, Chromium, Molybdenum, Niobium alloy that can be work hardened up to 46 HRC for high wear or abrasive environments. It has outstanding strength and toughness up to 2000F, which is derived from the solid solution strengthening effects of the refractory metals, columbium and molybdenum. Eureka 62 nickel base has excellent fatigue strength, which resists heat checking from alternating heating and cooling cycles.

RECOMMENDED APPLICATIONS

Eureka 62 TIG Rod is for welding 625, 600, and 800 type nickel base alloys. It is also used for making high strength welds on 9% nickel steels and for overlaying carbon steel. It has outstanding strength and toughness up to 2000° F. Eureka 62 weld deposits perform excellent in many hot working applications. In the steel mill industry it is used on tongs, entry roll guides, hot shear applications, and furnace parts. In the ring industry, it has found great success on axial cones and in the forging and extrusion industry, it is used for hard facing impressions and dummy blocks.

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RECOMMENDED SHIELDING GASES

100% Argon

GAS FLOW RATE

20-40 CFH

TYPICAL CHEMISTRY

C	Mn	Si	Cr	Mo	Nb	Ni
.02	.50	.50	21.5	8.5	2.5	Bal

PHYSICAL AND OR MECHANICAL PROPERTIES

TENSILE STRENGTH 80,000 psi

ELONGATION 40%

WORK HARDENS UP TO 46 HRC