

Eureka Welding Alloys

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TECHNICAL DATA FOR EUREKA MF-201 TIG RODS

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INTRODUCTION

Eureka MF-201 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 MF-201 TIG Rods are a Cobalt based modified 21 type hard facing alloy. It offers combined resistance to impact, heat, abrasion, corrosion, scaling and thermal shock. It has far greater resistance to shock and heat checking than typical Cobalt base alloys normally have. **Eureka MF-201** weld deposits have excellent corrosion resistance in oxidizing atmospheres and chlorine type solutions. It also has resistance to scaling up to 1800 F. It has good hot hardness well at extreme temperatures. The weld deposits of **Eureka MF-201**, which is the toughest of Cobalt-base alloys, will average approximately 30 – 35 HRC as applied, and will work-harden up to 55 HRC. The deposits are also highly resistant to heat checking.

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RECOMMENDED APPLICATIONS

Eureka MF-201 TIG Rods are used in press forging dies, hot trimming dies, punching and shearing dies, extrusion dies and dummy blocks. Eureka MF-201 offers a combined resistance to impact, heat, abrasion, corrosion, scaling and thermal shock. Eureka MF-201 weld deposits are the toughest of the cobalt base alloys and will retain its hardness well at elevated temperatures. Overlaying hot press forging dies with **Eureka MF-20** can double or triple die life over conventional die block steels.

RECOMMENDED SHIELDING GASES

100% Argon

GAS FLOW RATE

20-40 CFH

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TYPICAL CHEMISTRY

C	Mn	Si	Cr	Mo	Ni	Nb
.15	.30	1.0	28.0	5.5	4.5	.60

PHYSICAL AND OR MECHANICAL PROPERTIES

Welded Hardness

30-35 HRC

Work Hardens to

55 HRC